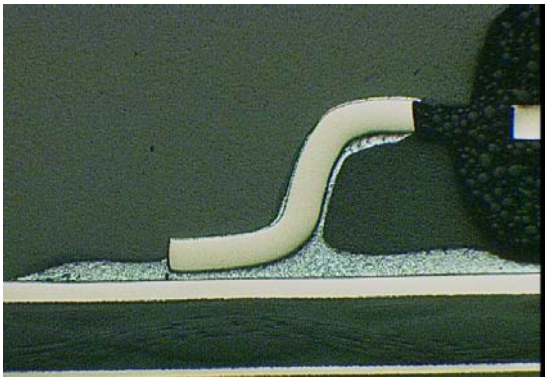
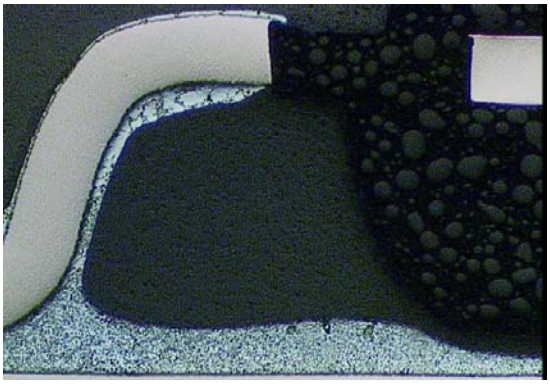
Part # U1

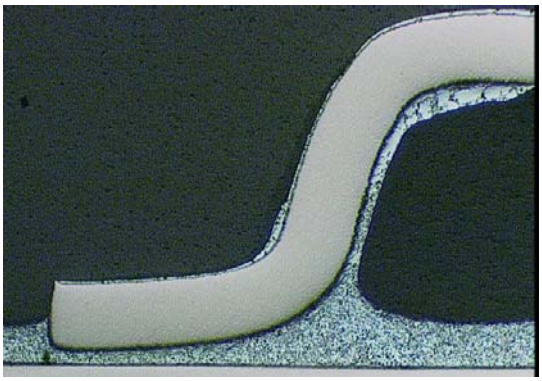
Left Side



PWB41 - U1- SnPb Solder, Sn Finish @25x

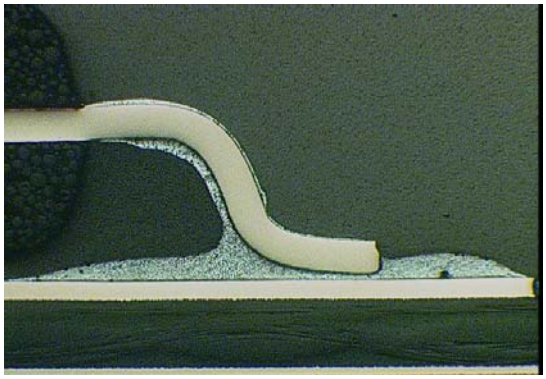


PWB41 - U1- SnPb Solder, Sn Finish @50x

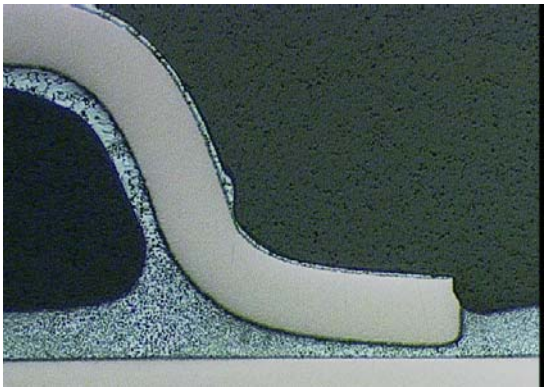


PWB41 - U1- SnPb Solder, Sn Finish @50x

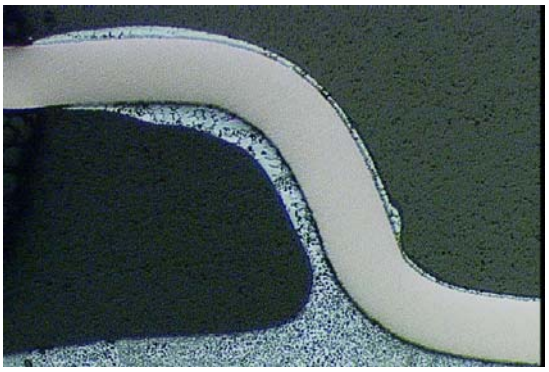
Right Side



PWB41 - U1- SnPb Solder, Sn Finish @25x



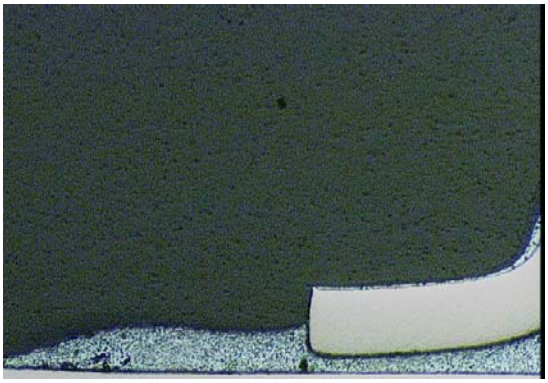
PWB41 - U1- SnPb Solder, Sn Finish @50x



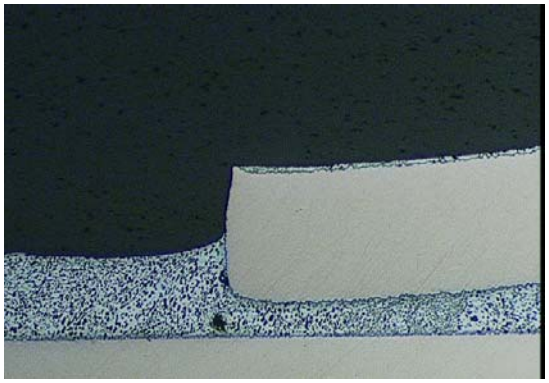
PWB41 - U1- SnPb Solder, Sn Finish @50x

Part # U1

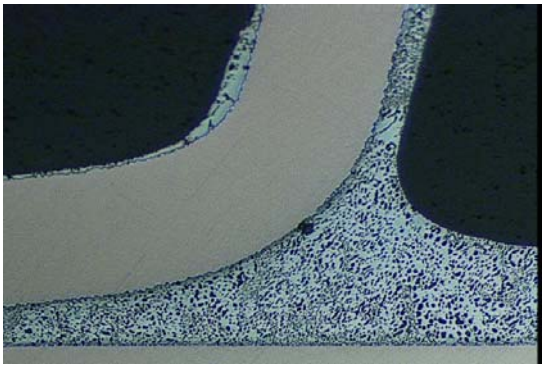
Left Side



PWB41 - U1- SnPb Solder, Sn Finish @50x

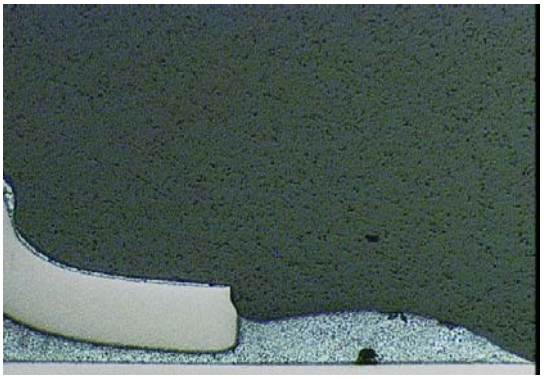


PWB41 - U1- SnPb Solder, Sn Finish @100x



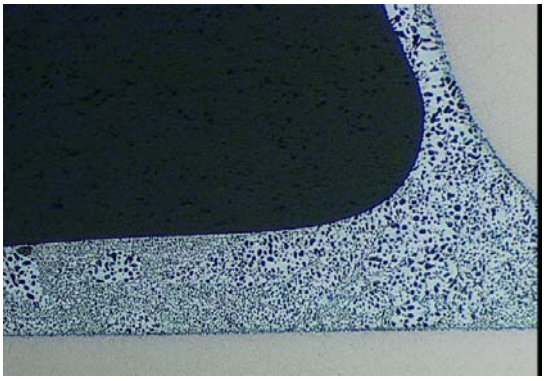
PWB41 - U1- SnPb Solder, Sn Finish @100x

Right Side



PWB41 - U1- SnPb Solder, Sn Finish @50x

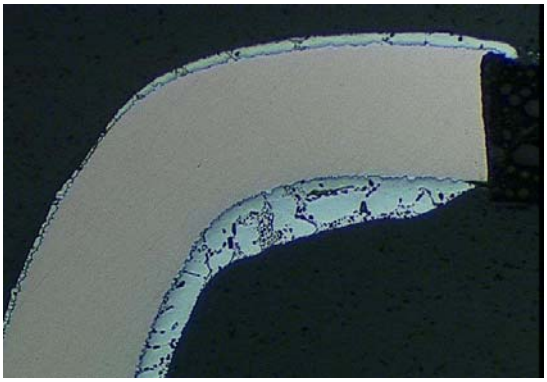
PWB41 - U1- SnPb Solder, Sn Finish @100x



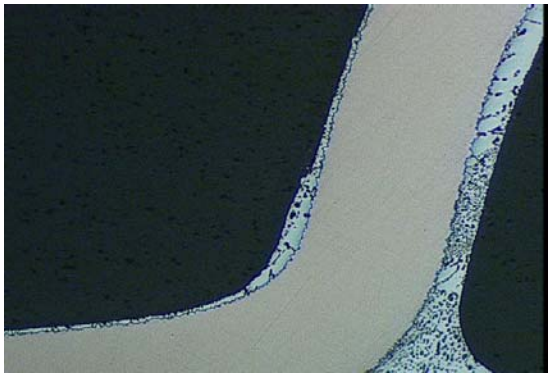
PWB41 - U1- SnPb Solder, Sn Finish @100x

Part # U1

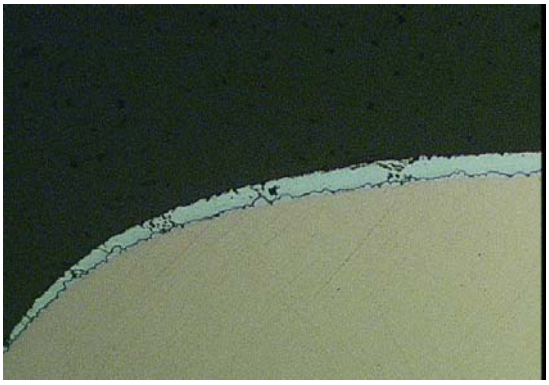
Left Side



PWB41 - U1- SnPb Solder, Sn Finish @100x

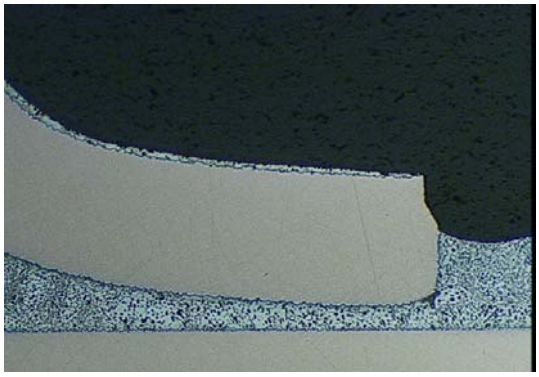


PWB41 - U1- SnPb Solder, Sn Finish @100x

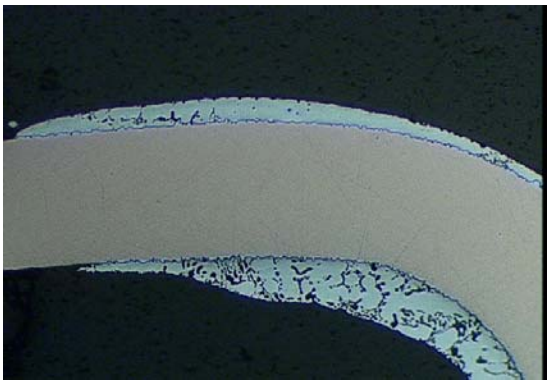


PWB41 - U1- SnPb Solder, Sn Finish @200x

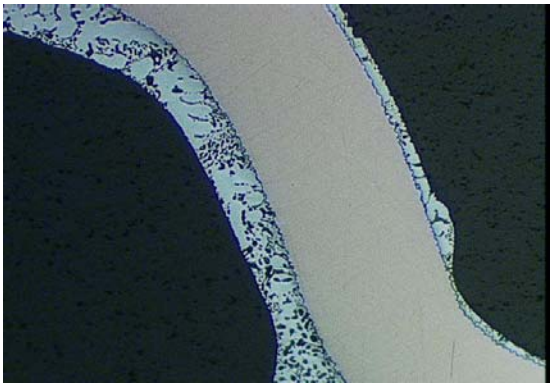
Right Side



PWB41 - U1- SnPb Solder, Sn Finish @100x



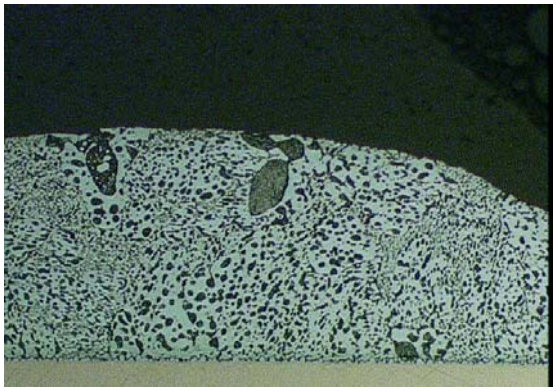
PWB41 - U1- SnPb Solder, Sn Finish @100x



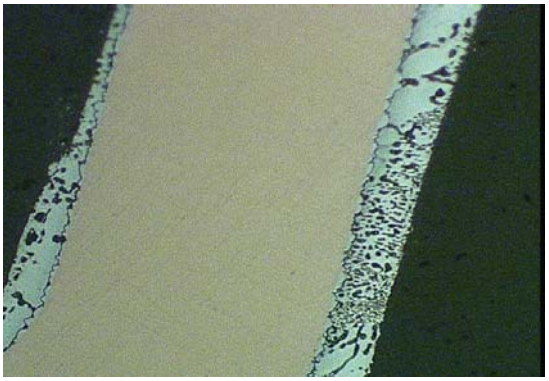
PWB41 - U1- SnPb Solder, Sn Finish @100x

Part # U1

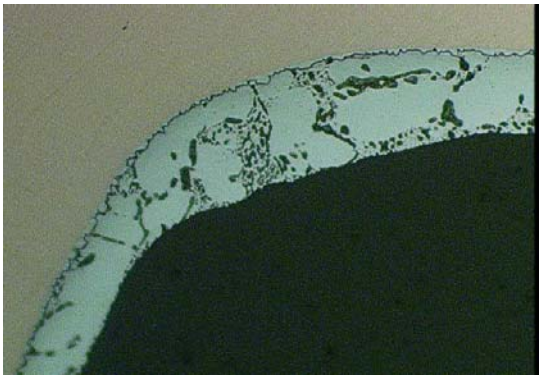
Left Side



PWB41 - U1- SnPb Solder, Sn Finish @200x

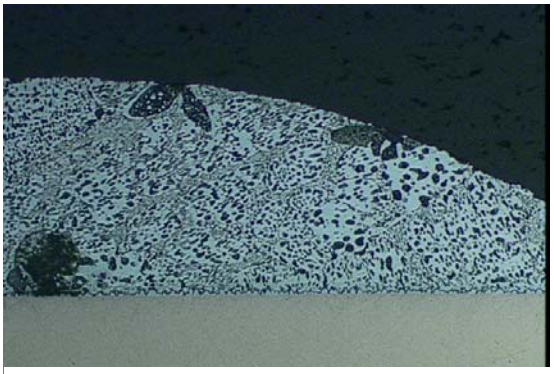


PWB41 - U1- SnPb Solder, Sn Finish @200x

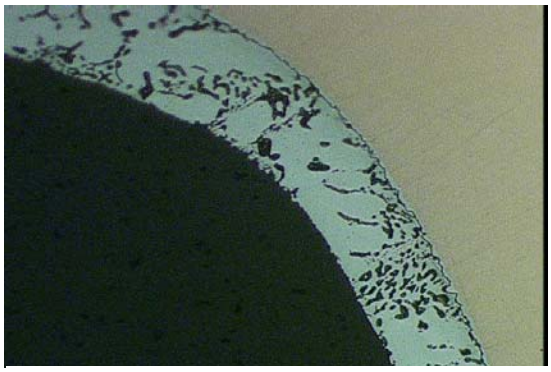


PWB41 - U1- SnPb Solder, Sn Finish @200x

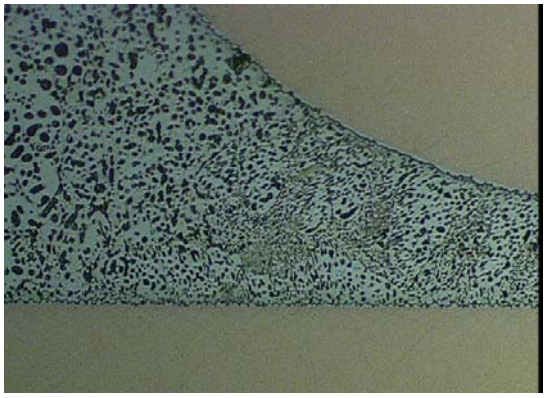
Right Side



PWB41 - U1- SnPb Solder, Sn Finish @200x



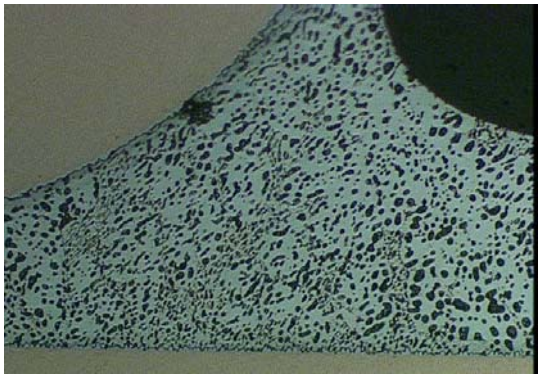
PWB41 - U1- SnPb Solder, Sn Finish @200x



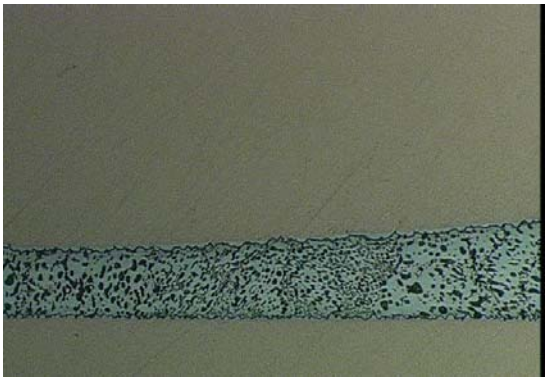
PWB41 - U1- SnPb Solder, Sn Finish @200x

Part # U1

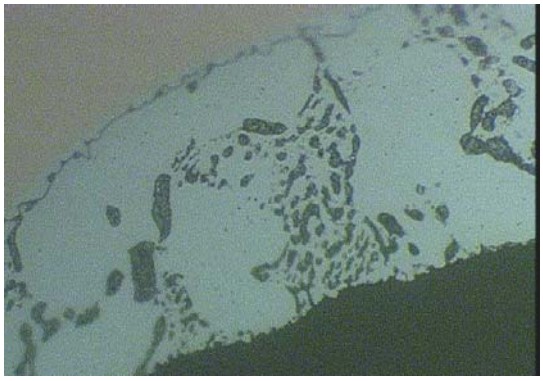
Left Side



PWB41 - U1- SnPb Solder, Sn Finish @200x

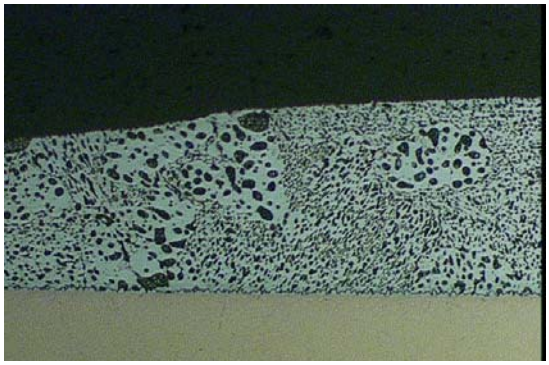


PWB41 - U1- SnPb Solder, Sn Finish @200x

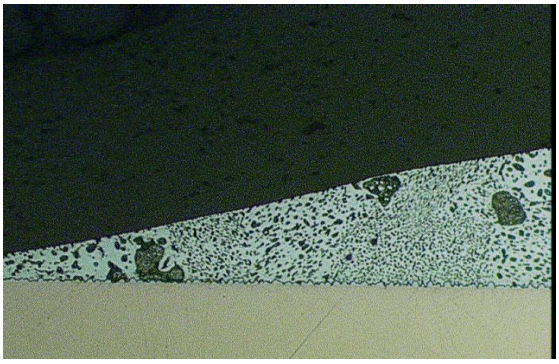


PWB41 - U1- SnPb Solder, Sn Finish @500x

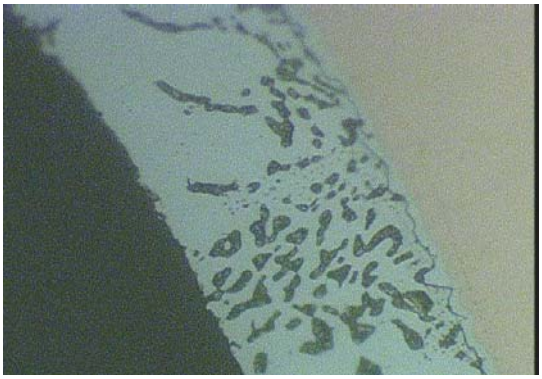
Right Side



PWB41 - U1- SnPb Solder, Sn Finish @200x



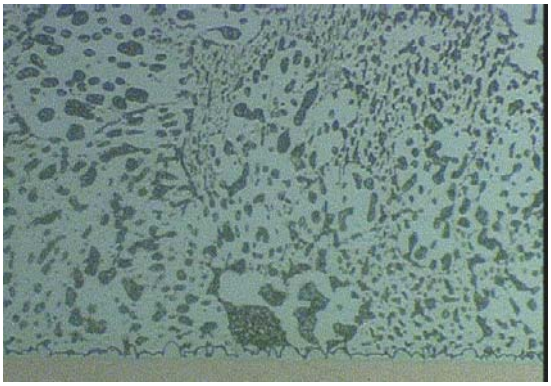
PWB41 - U1- SnPb Solder, Sn Finish @200x



PWB41 - U1- SnPb Solder, Sn Finish @500x

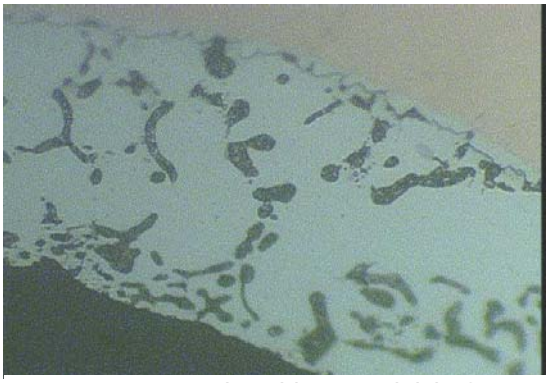
Part # U1

Left Side

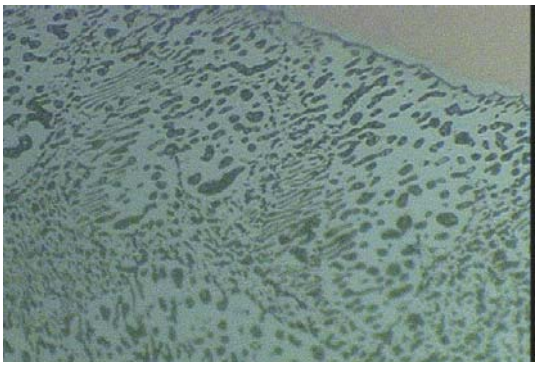


PWB41 - U1- SnPb Solder, Sn Finish @500x

Right Side



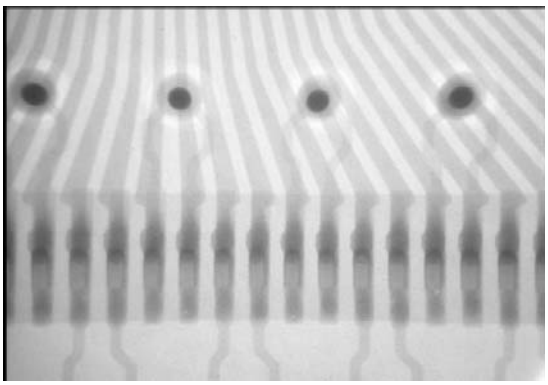
PWB41 - U1- SnPb Solder, Sn Finish @500x



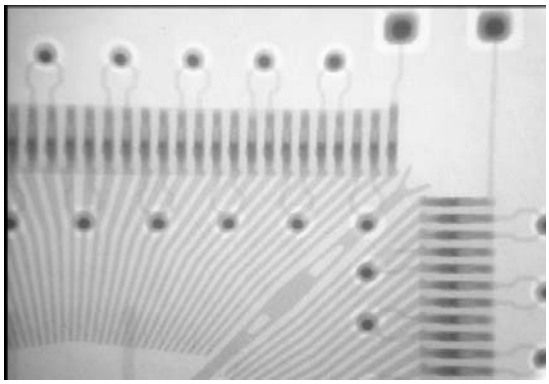
PWB41 - U1- SnPb Solder, Sn Finish @500x

Part # U1

X-Ray

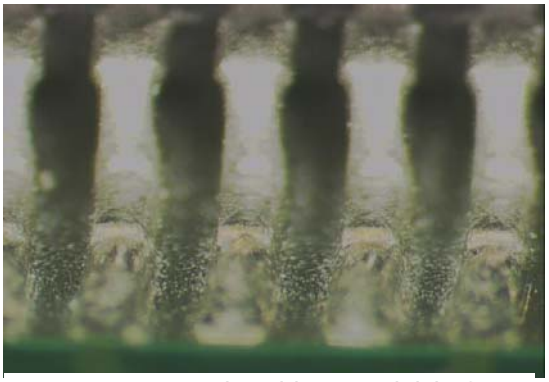


PWB41 - U1- SnPb Solder, Sn Finish, X-Ray

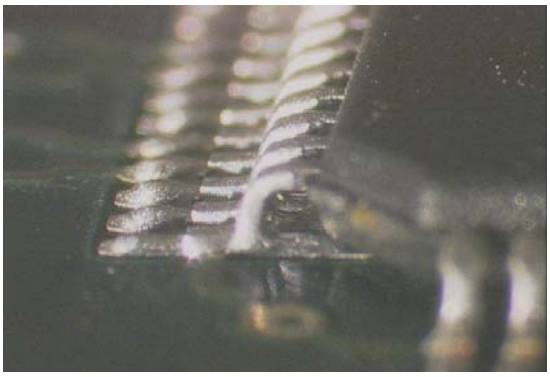


PWB41 - U1- SnPb Solder, Sn Finish, X-Ray

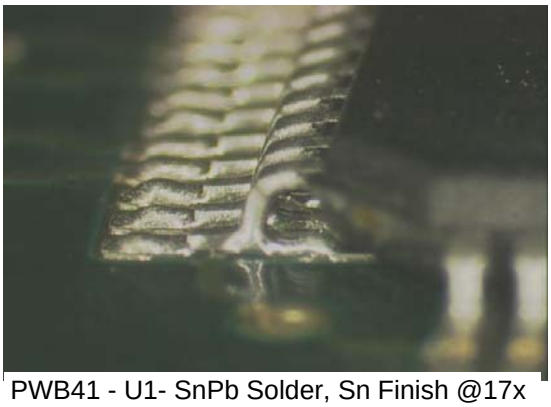
Microscope



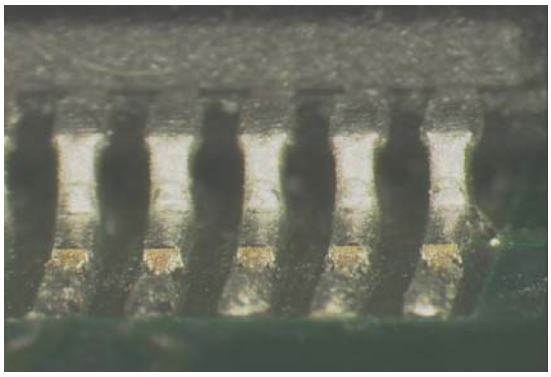
PWB41 - U1- SnPb Solder, Sn Finish @32x



PWB41 - U1- SnPb Solder, Sn Finish @17x



PWB41 - U1- SnPb Solder, Sn Finish @17x

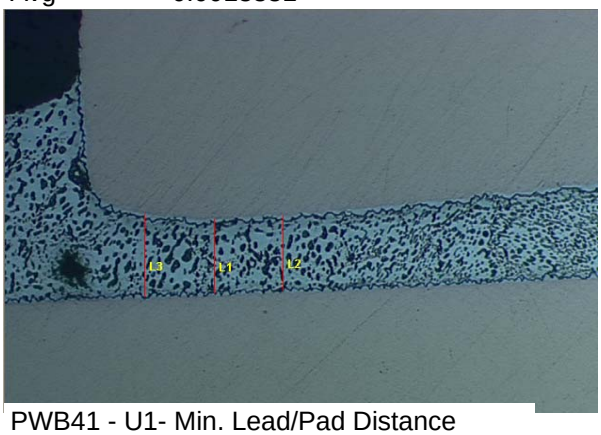


PWB41 - U1- SnPb Solder, Sn Finish @21x

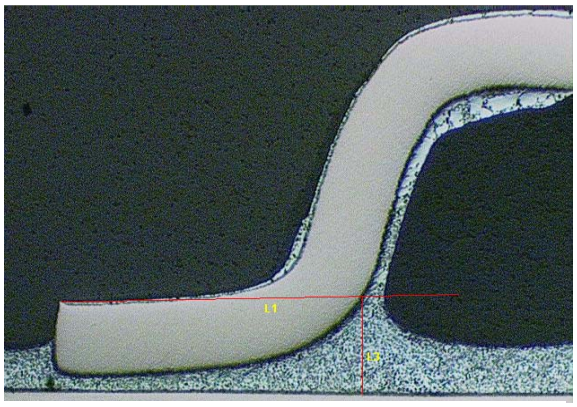
Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0012898
Meas 2	0.0012898
Meas 3	0.0014347
Avg	0.0013381

Min. Required Heel Fillet (in.)
0.0068208



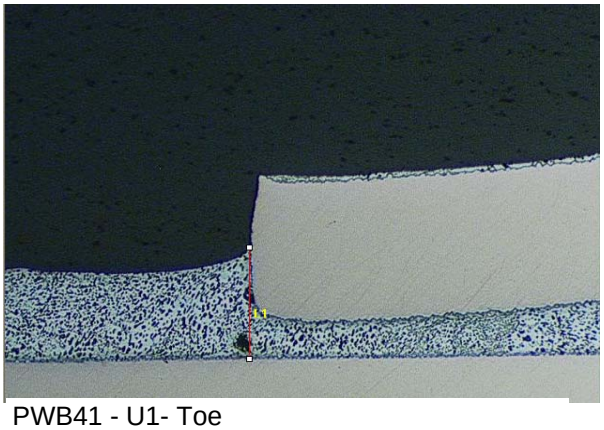
PWB41 - U1- Min. Lead/Pad Distance



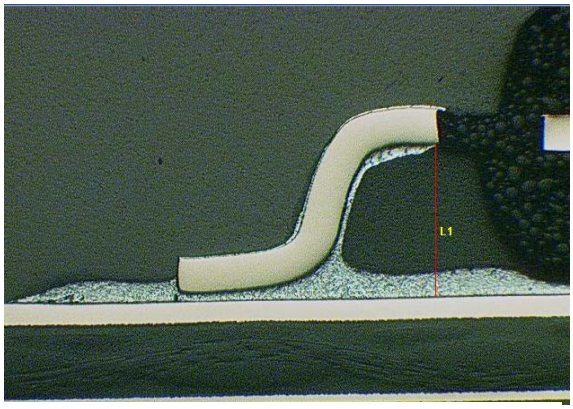
PWB41 - U1- Min. Required Heel Fillet

Toe (in.)
0.0038439

Heel Fillet (in.)
0.0212643



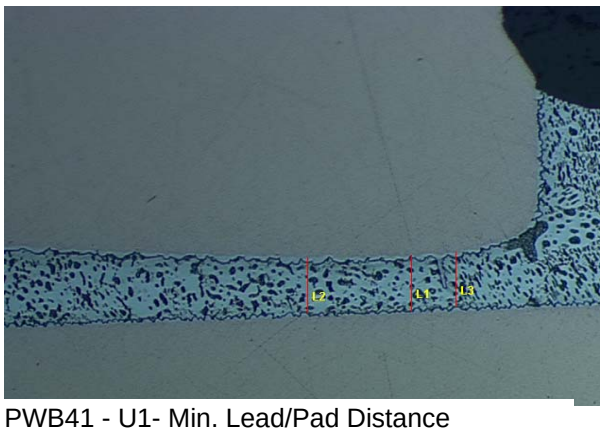
PWB41 - U1- Toe



PWB41 - U1- Heel Fillet

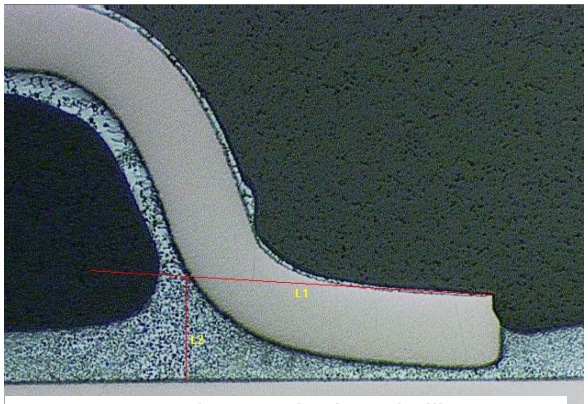
Right

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0009710
Meas 2	0.0009565
Meas 3	0.0009565
Avg	0.0009613



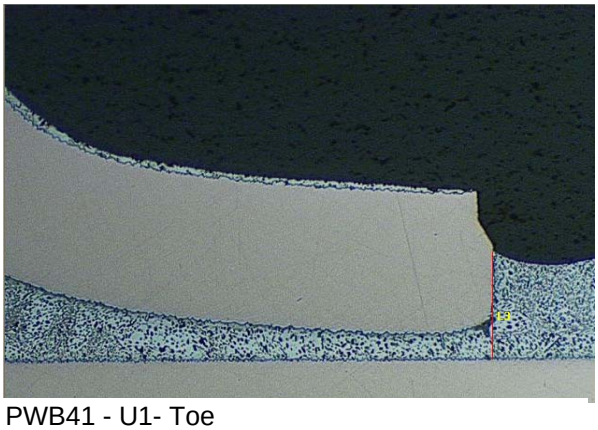
PWB41 - U1- Min. Lead/Pad Distance

Min. Required Heel Fillet (in.)
0.0072254



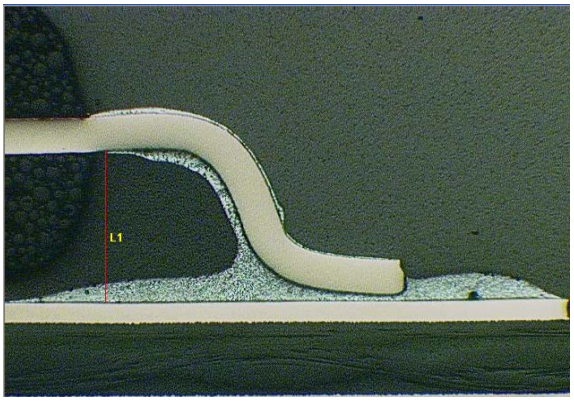
PWB41 - U1- Min. Required Heel Fillet

Toe (in.)
0.0037283



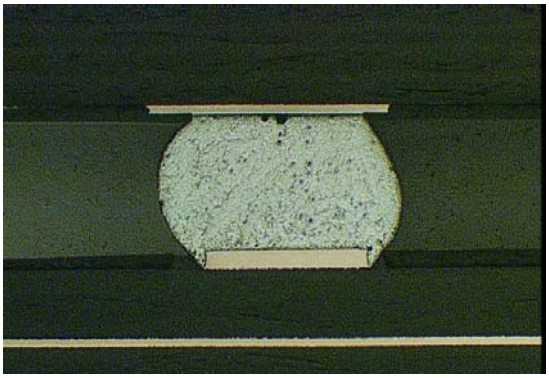
PWB41 - U1- Toe

Heel Fillet (in.)
0.0211494

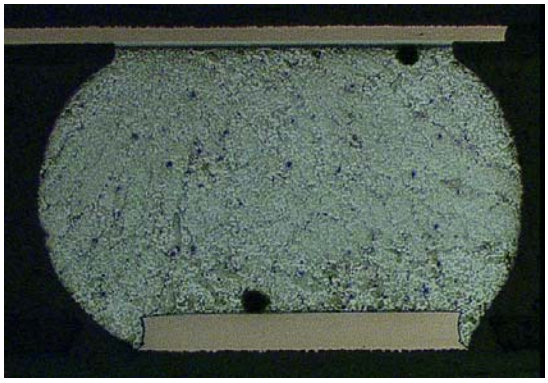


PWB41 - U1- Heel Fillet

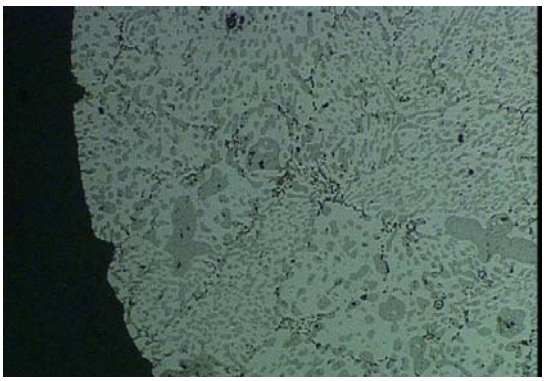
Part # U2



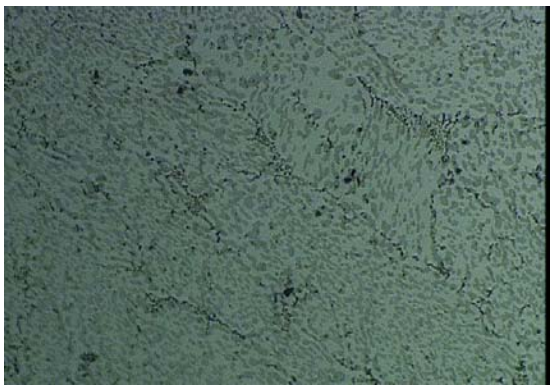
PWB41 - U2- SnPb Solder, SnPb Finish @25x



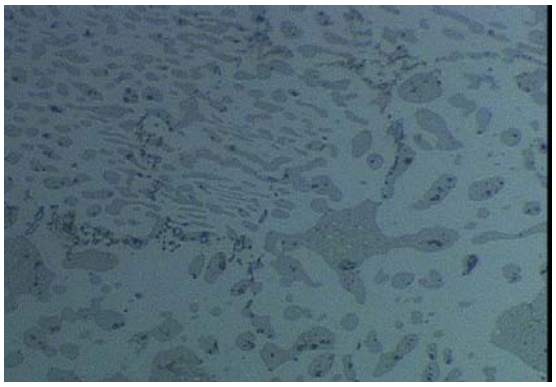
PWB41 - U2- SnPb Solder, SnPb Finish @50x



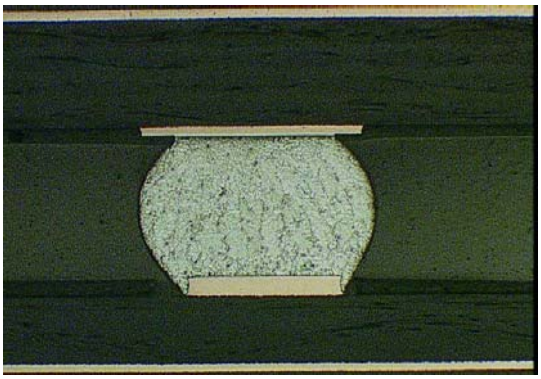
PWB41 - U2- SnPb Solder, SnPb Finish @200x



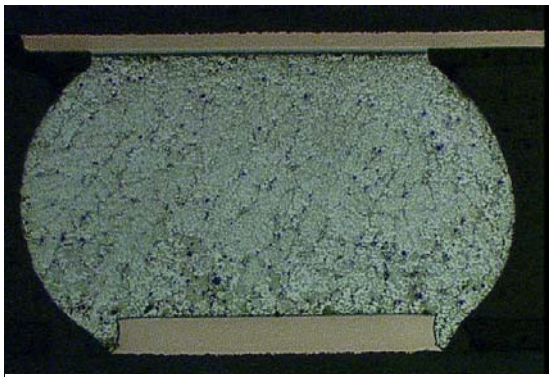
PWB41 - U2- SnPb Solder, SnPb Finish @200x



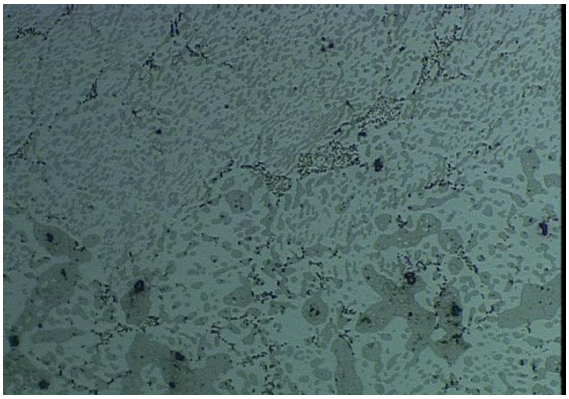
PWB41 - U2- SnPb Solder, SnPb Finish @500x



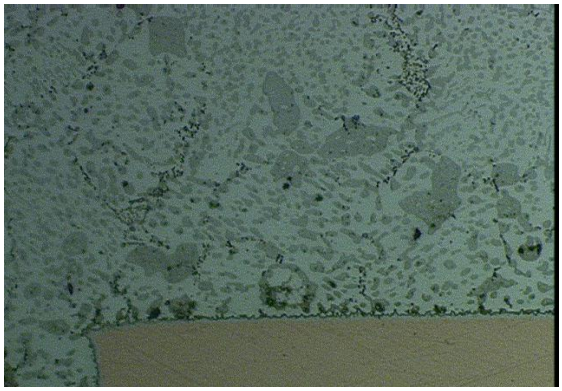
PWB41 - U2- SnPb Solder, SnPb Finish @25x



PWB41 - U2- SnPb Solder, SnPb Finish @50x



PWB41 - U2- SnPb Solder, SnPb Finish @200x



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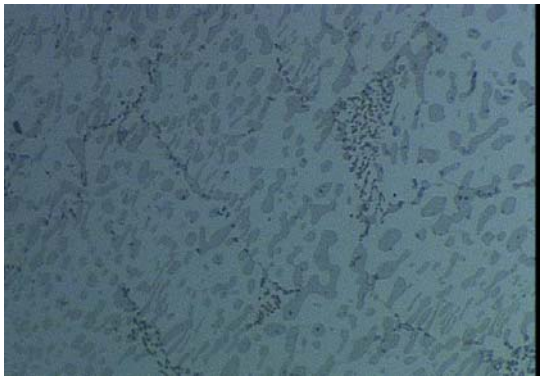

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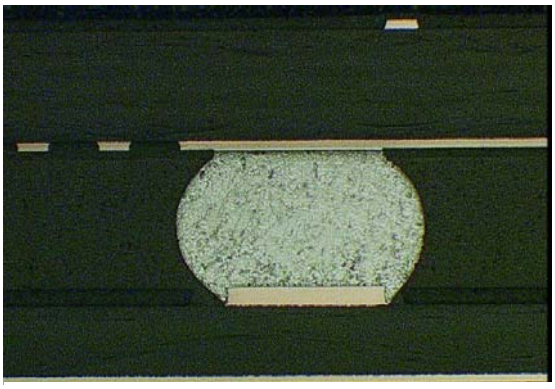
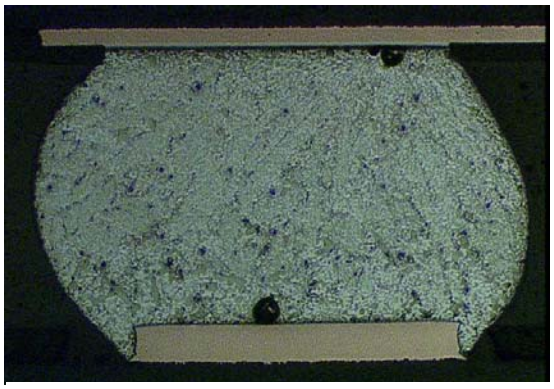


PWB41 - U2- SnPb Solder, SnPb Finish @25x



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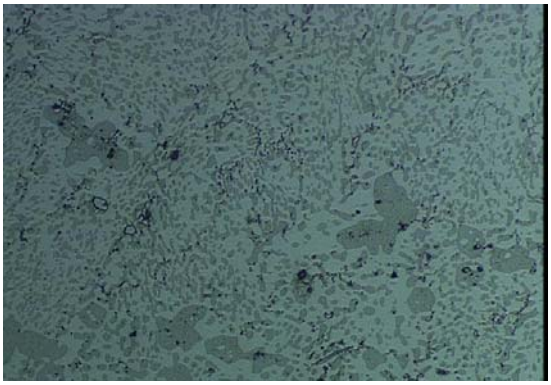

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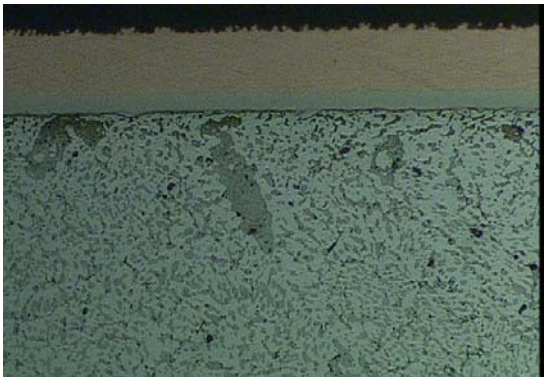

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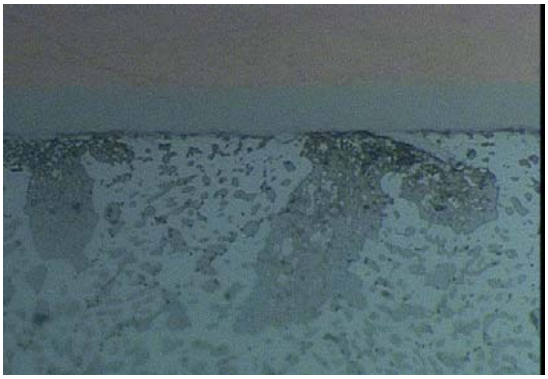

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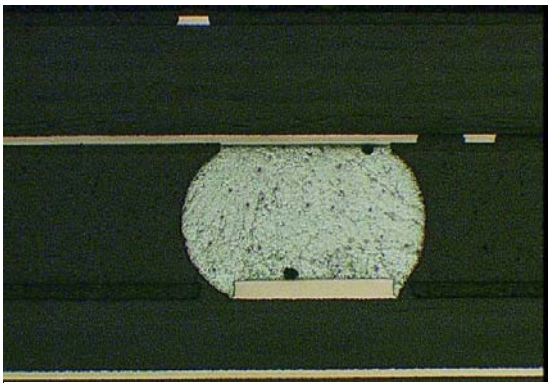

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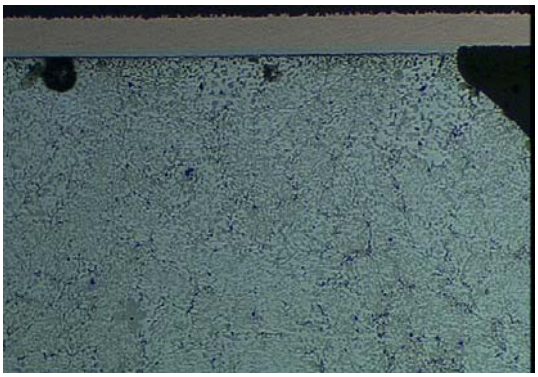
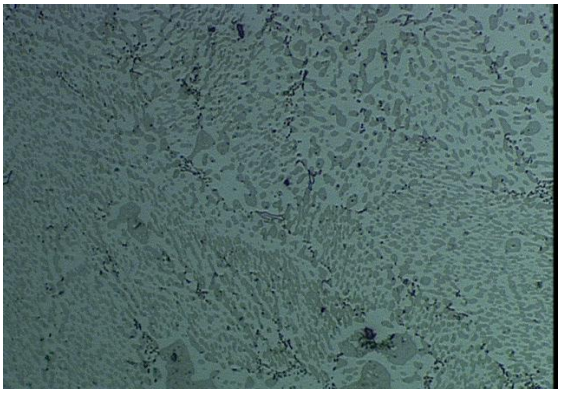


PWB41 - U2- SnPb Solder, SnPb Finish @100x



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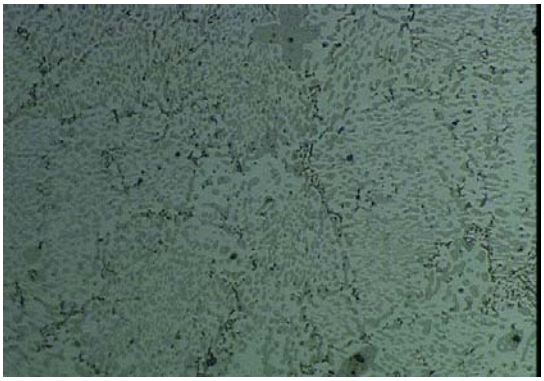

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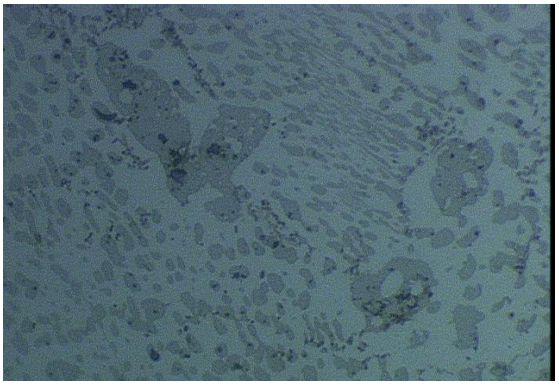

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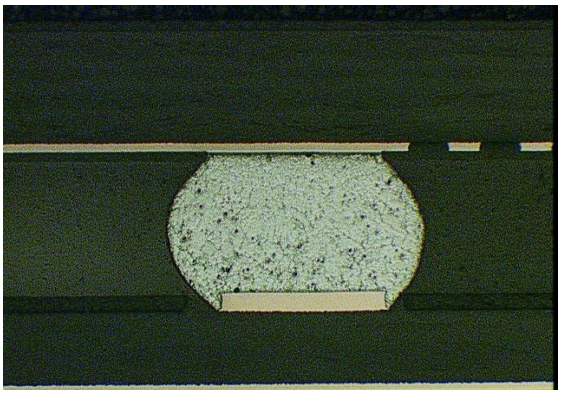

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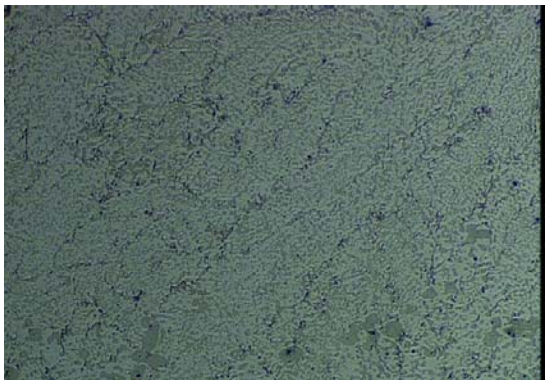
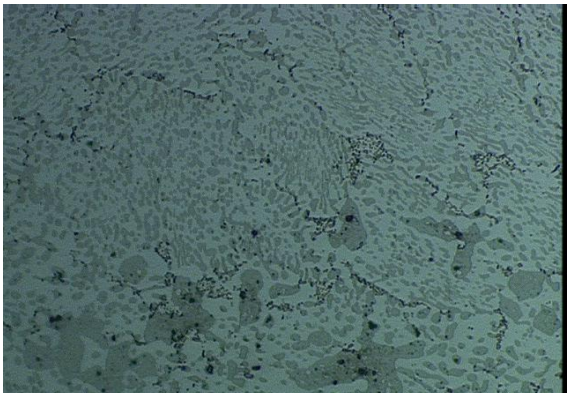


PWB41 - U2- SnPb Solder, SnPb Finish @100x



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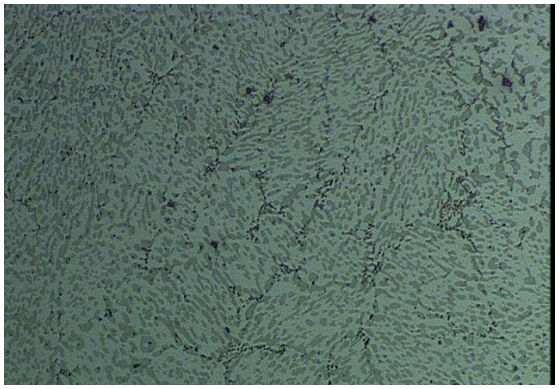

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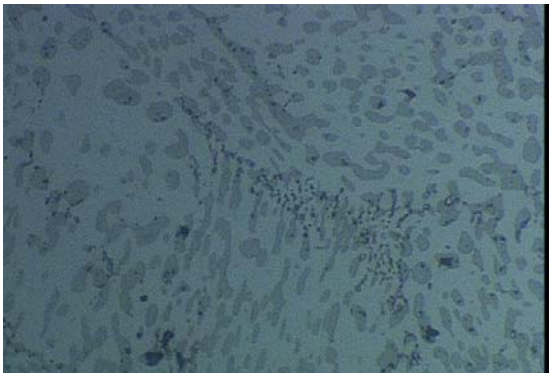

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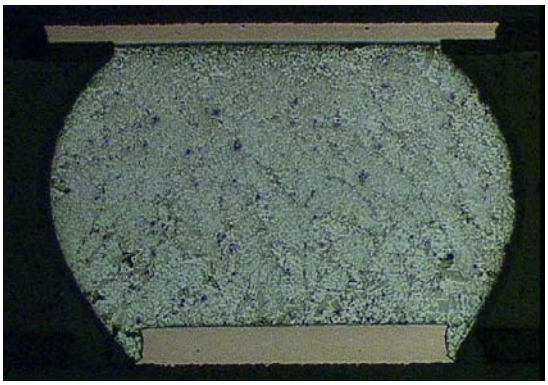
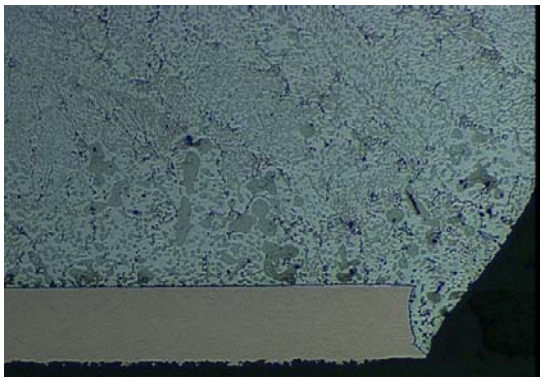


PWB41 - U2- SnPb Solder, SnPb Finish @50x



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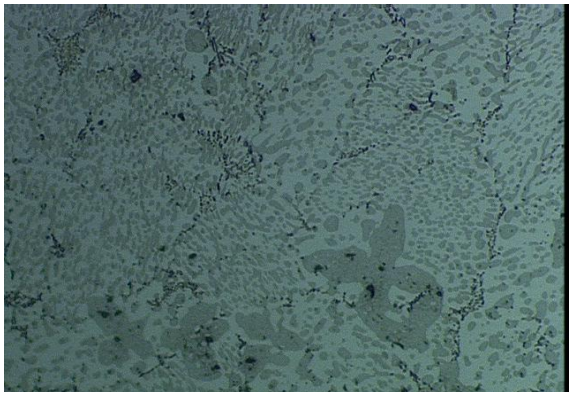

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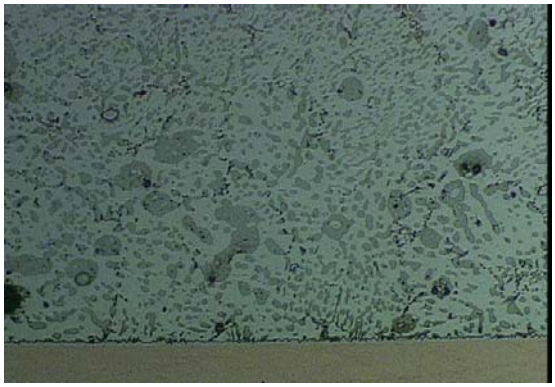

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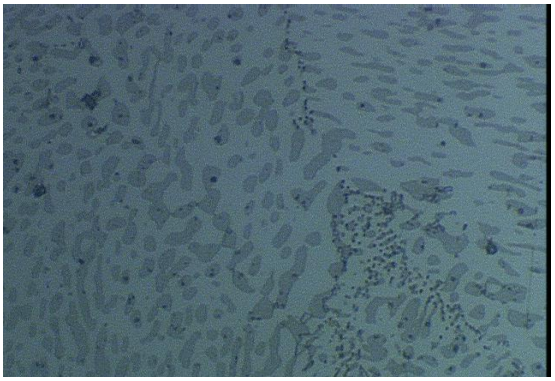

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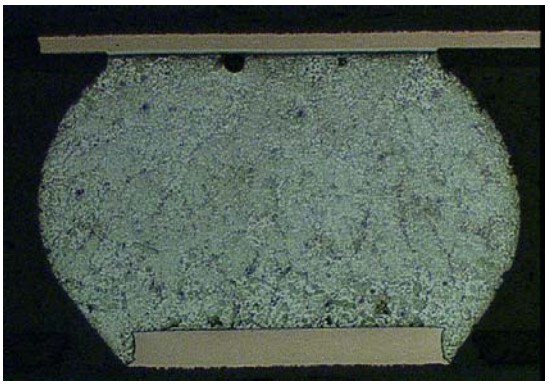

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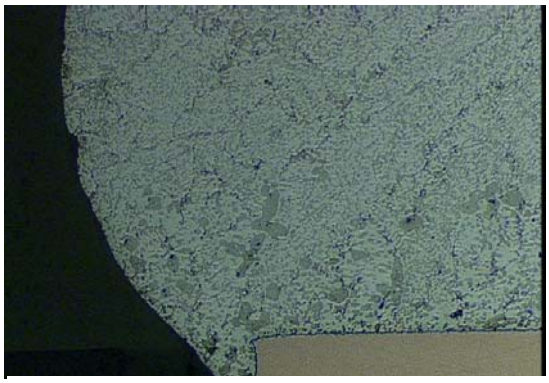
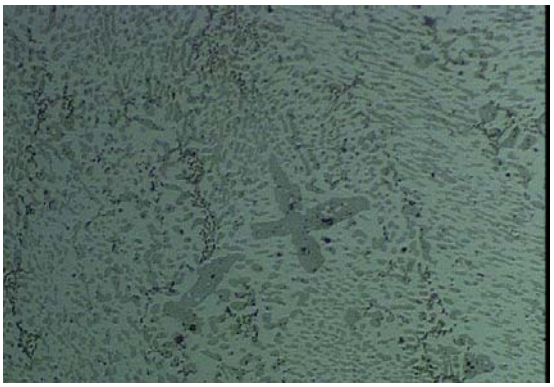


PWB41 - U2- SnPb Solder, SnPb Finish @100x



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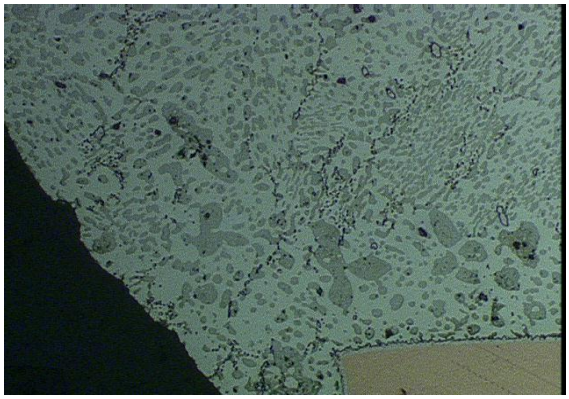

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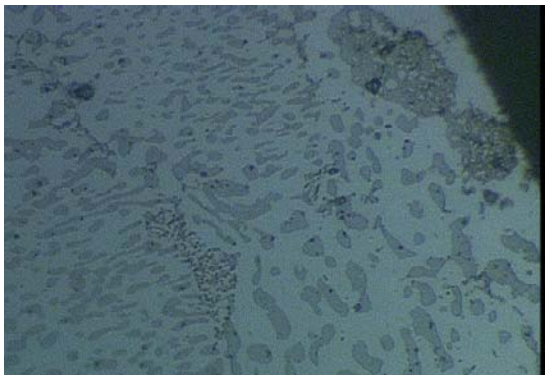

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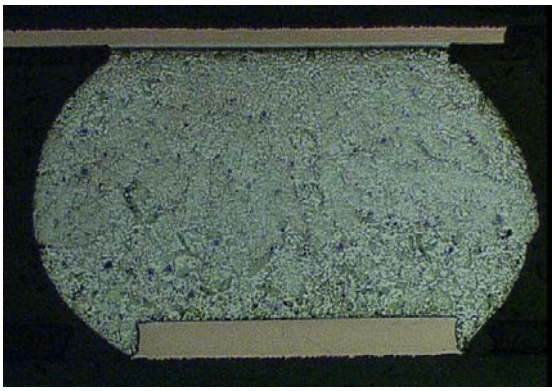

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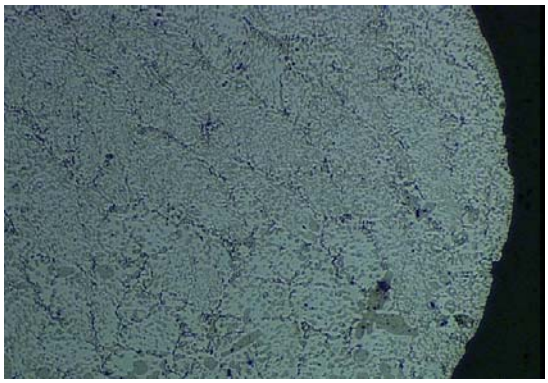

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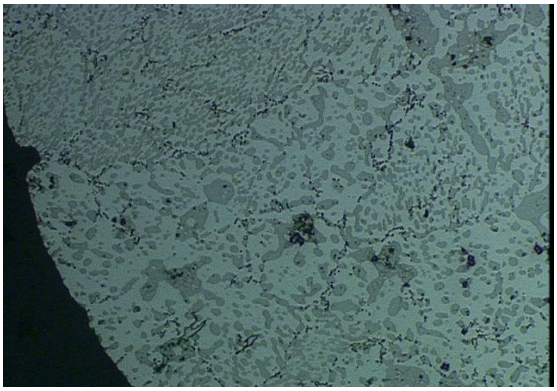

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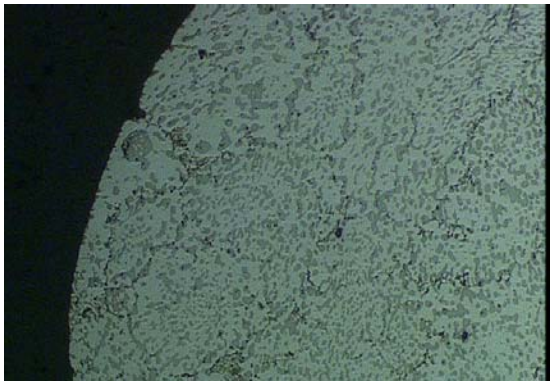

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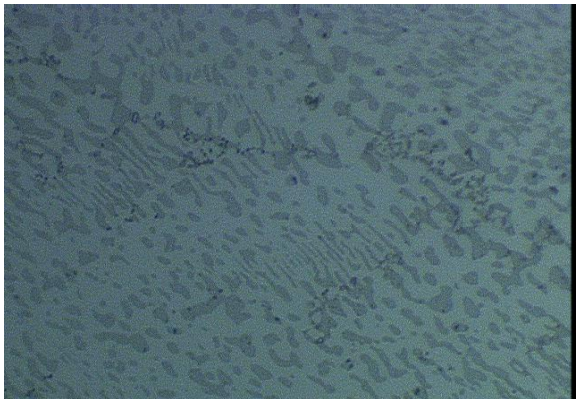

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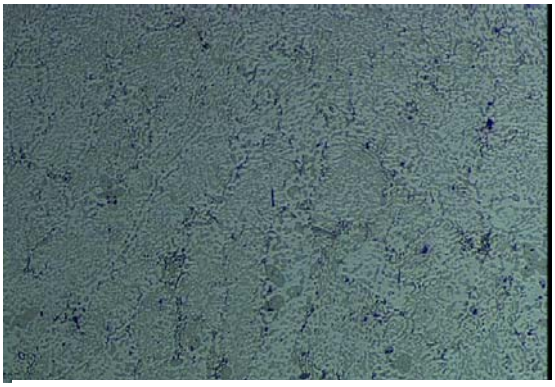

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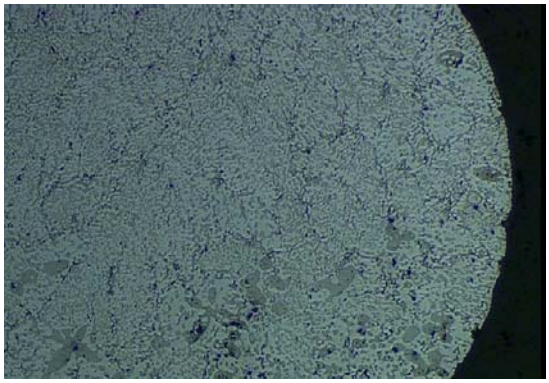

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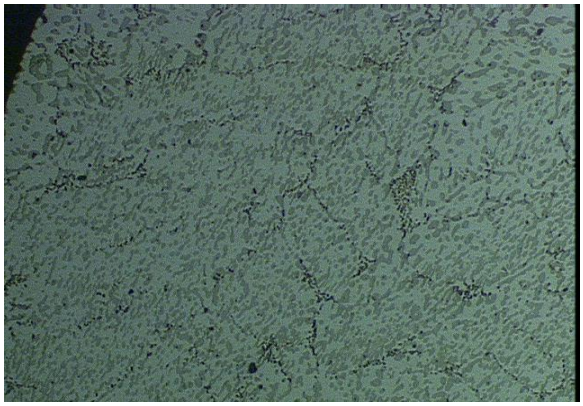

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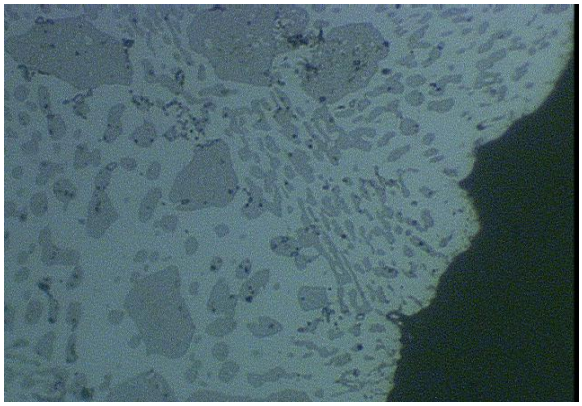

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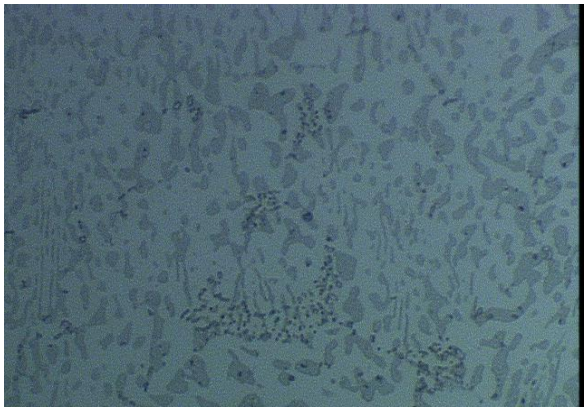

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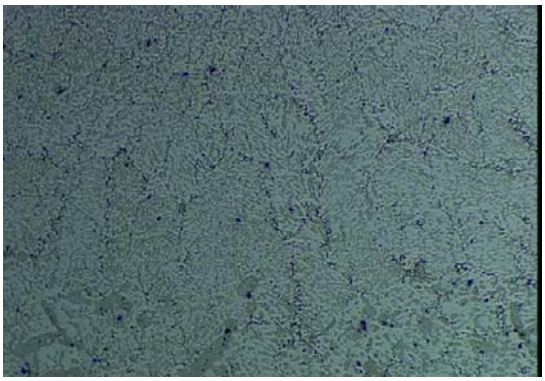

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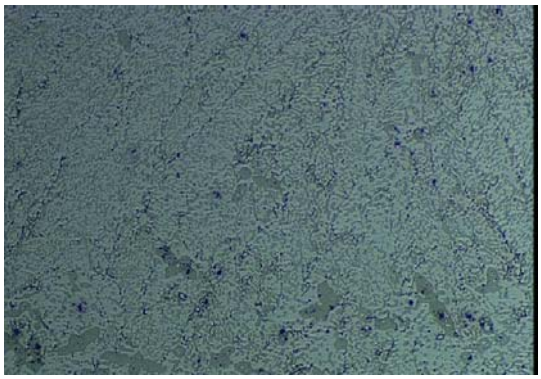

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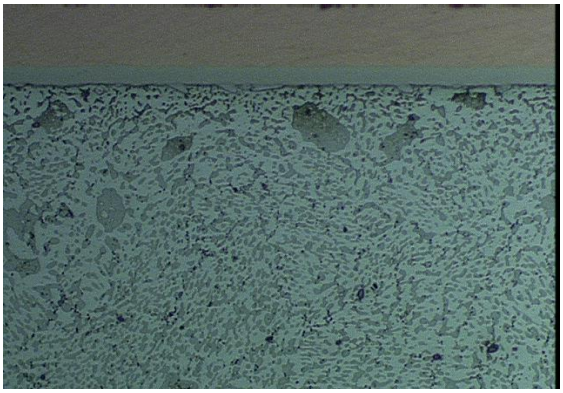

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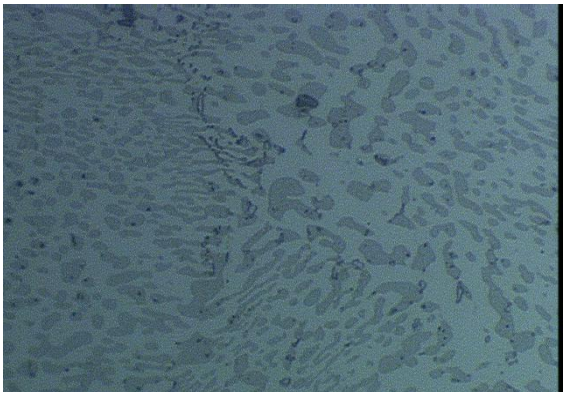

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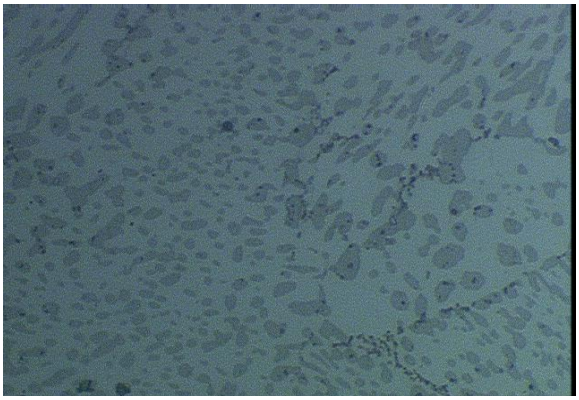

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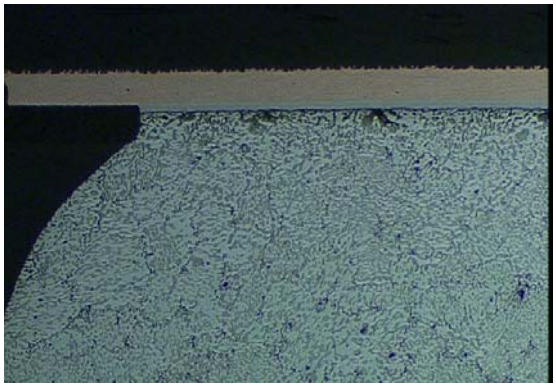

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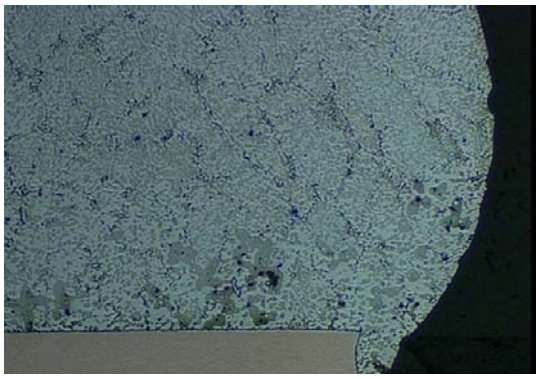

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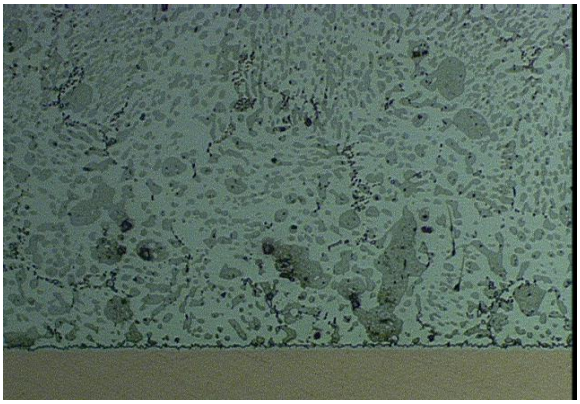

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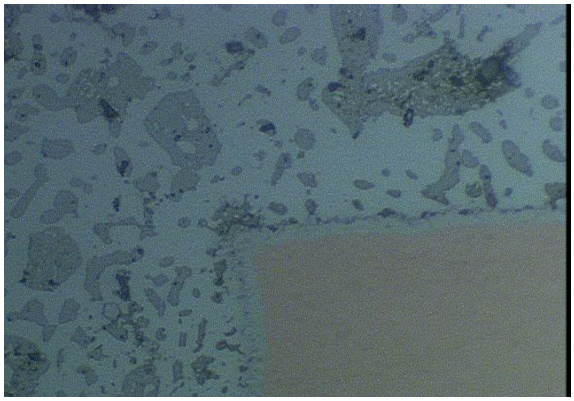

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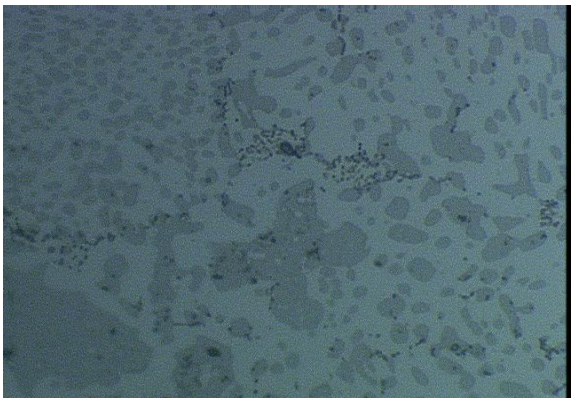
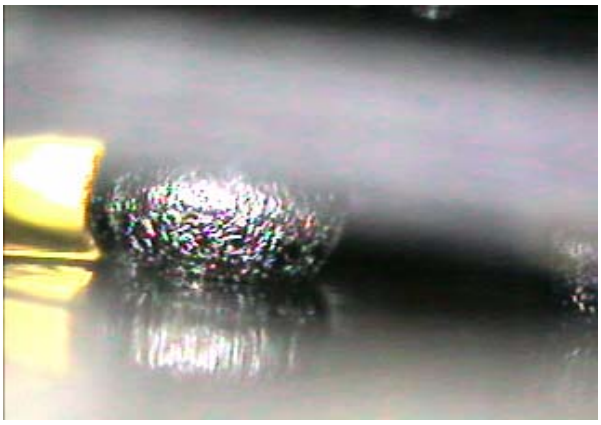


PWB41 - U2- SnPb Solder, SnPb Finish @500x

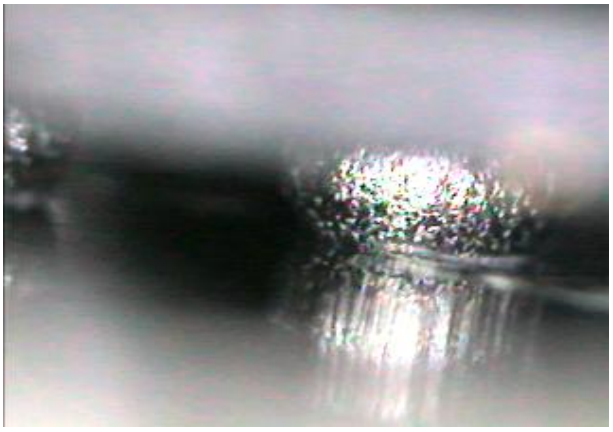
Part # U2

BGA SCOPE



PWB41 - U2- SnPb Solder, SnPb Finish BGA Scope

PWB41 - U2- SnPb Solder, SnPb Finish BGA Scope



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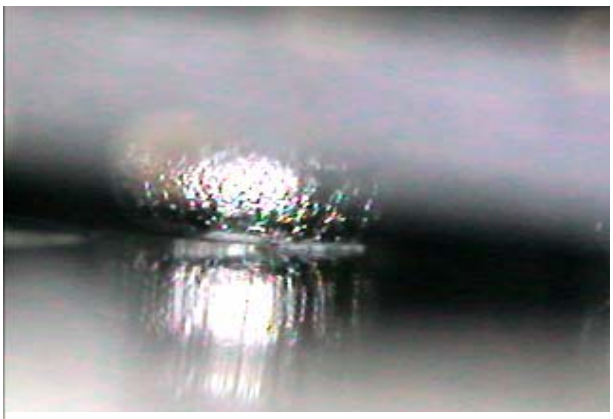
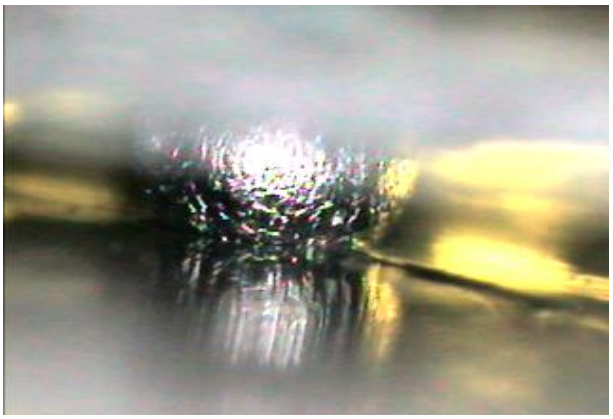


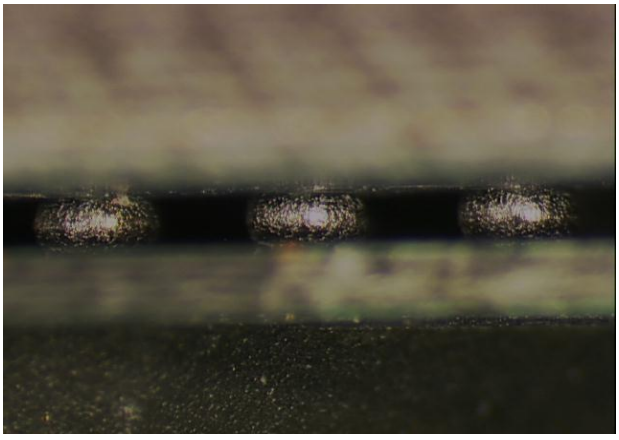
PWB41 - U2- SnPb Solder, SnPb Finish BGA Scope

PWB41 - U2- SnPb Solder, SnPb Finish BGA Scope

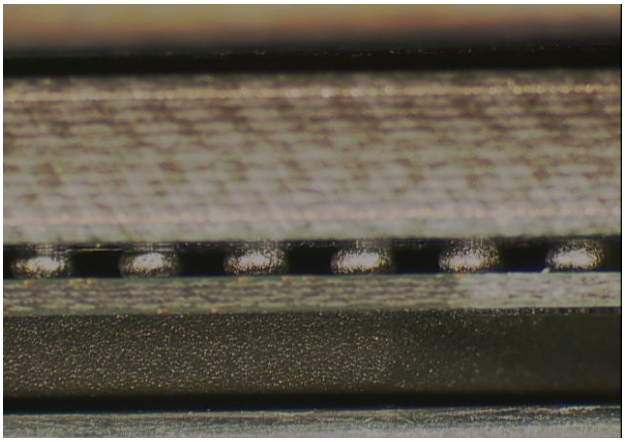


PWB41 - U2- SnPb Solder, SnPb Finish BGA Scope

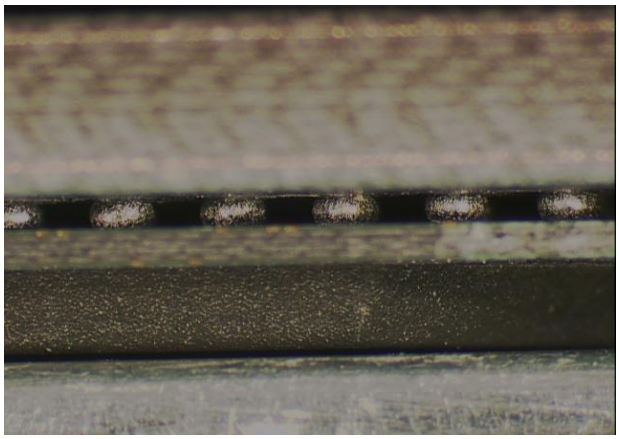
Microscope



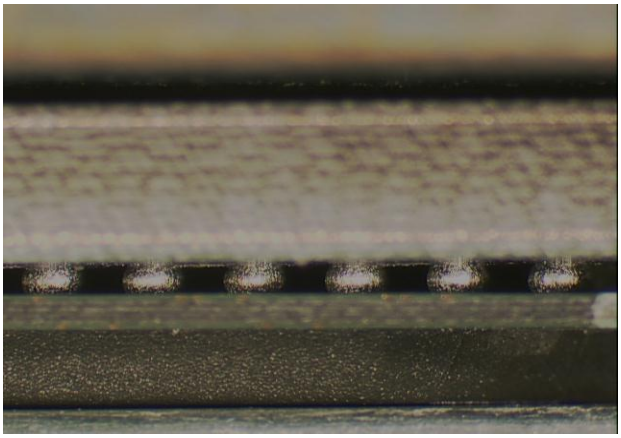
PWB41 - U2- SnPb Solder, SnPb Finish, Microscope



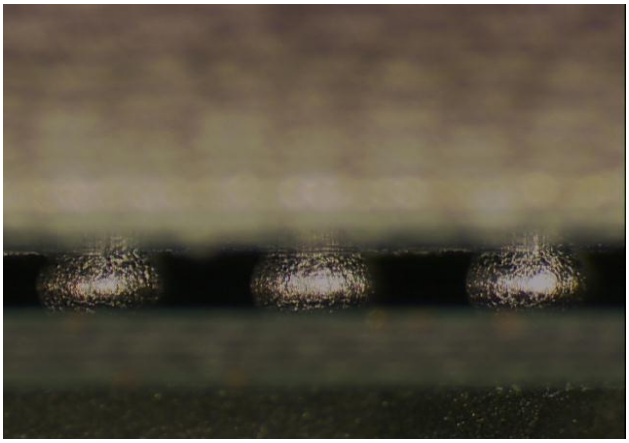
PWB41 - U2- SnPb Solder, SnPb Finish, Microscope



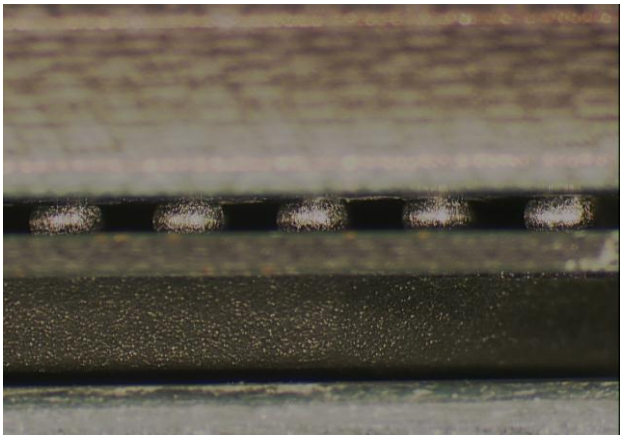
PWB41 - U2- SnPb Solder, SnPb Finish, Microscope



PWB41 - U2- SnPb Solder, SnPb Finish, Microscope

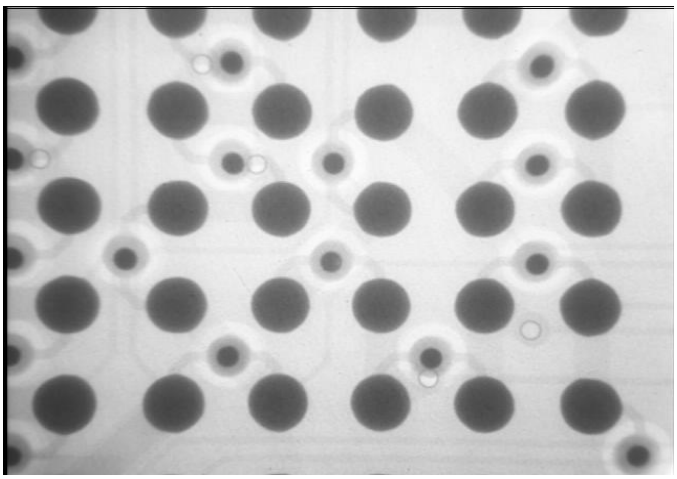


PWB41 - U2- SnPb Solder, SnPb Finish, Microscope

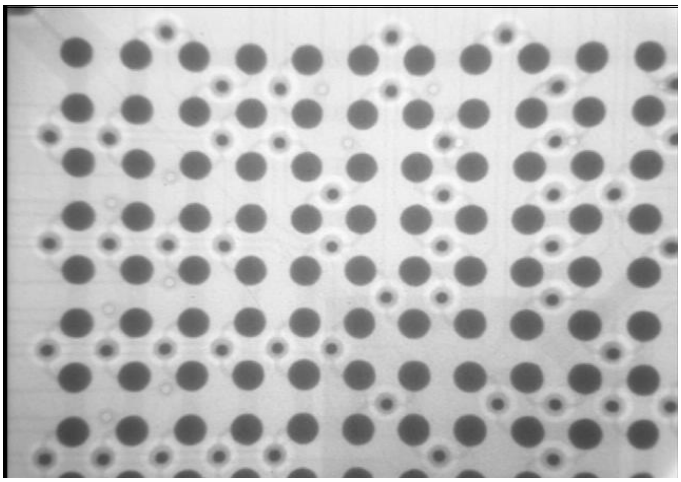


PWB41 - U2- SnPb Solder, SnPb Finish, Microscope

X-Ray



PWB41 - U2- SnPb Solder, SnPb Finish, X-Ray

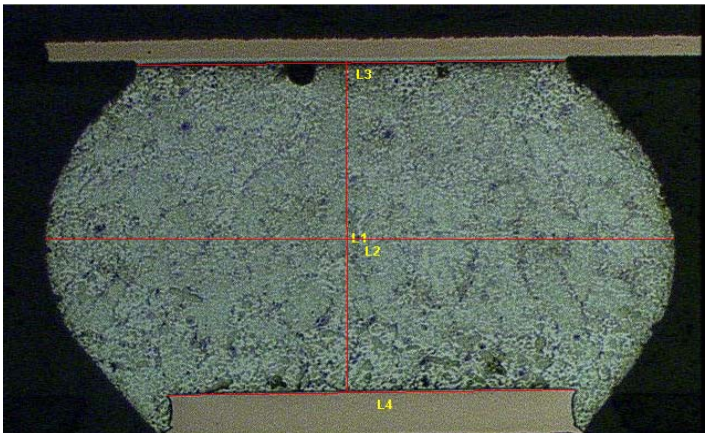


PWB41 - U2- SnPb Solder, SnPb Finish, X-Ray

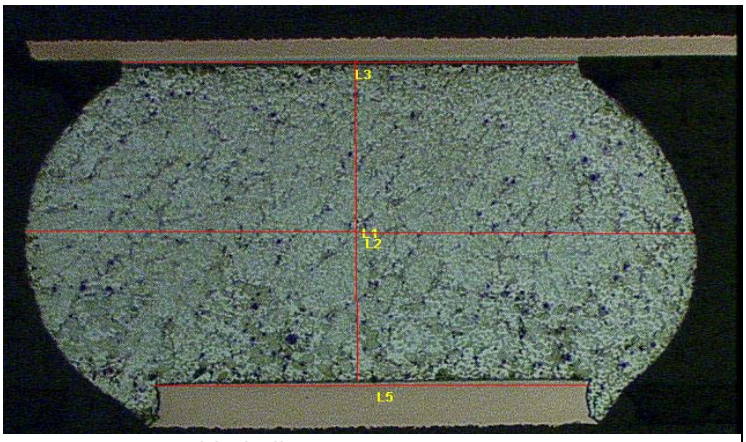
Part # U2

Category	Ball Width (in.)	Height (in.)	Top Contact (in.)	Bottom Contact (in.)
Meas 1	0.0204625	0.0328901	0.0223718	0.0213901
Meas 2	0.0334686	0.0197691	0.0227167	0.0217919
Meas 3	0.0339306	0.0197691	0.0227174	0.0216775
Meas 4	0.0331213	0.0199425	0.0228901	0.0219075
Meas 5	0.0332370	0.0202893	0.0231213	0.0221965
Meas 6	0.0317341	0.0209251	0.0221387	0.0210404
AVG	0.0309924	0.0222642	0.0226593	0.0216673

**Note : Six measurements were taken from different solder balls
**Note : The pictures shown are examples of a few of these measurements



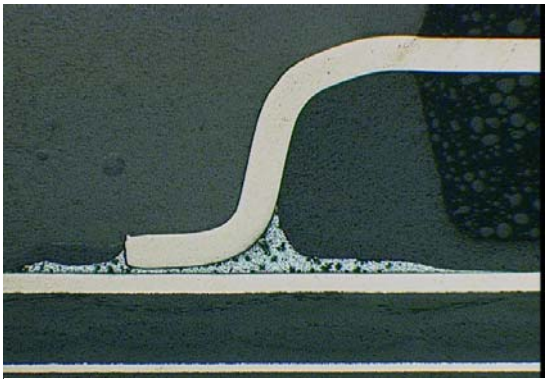
PWB41 - U2- Solderball - Measurement 1



PWB41 - U2- Solderball - Measurement 6

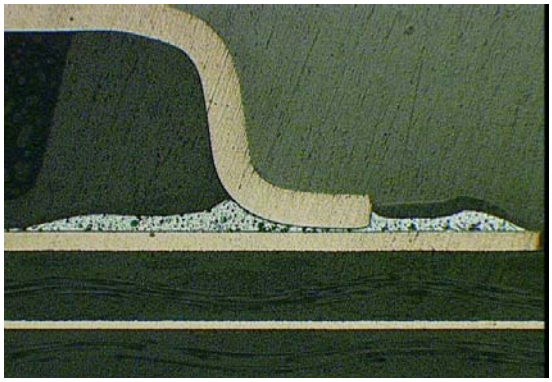
U3

Left Side

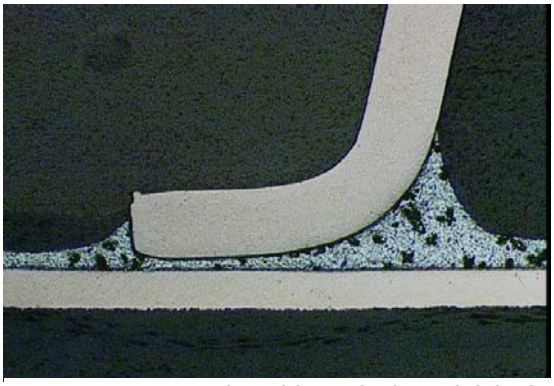


PWB41 - U3- SnPb Solder, NiPdAu Finish @25x

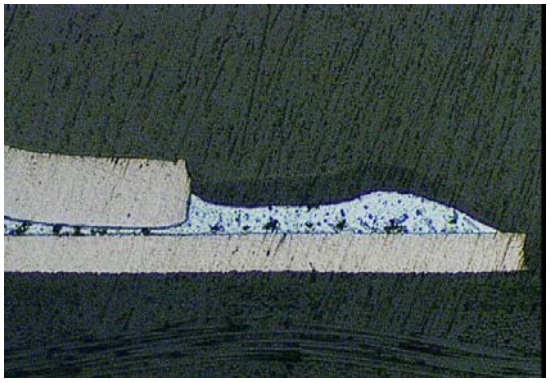
Right Side



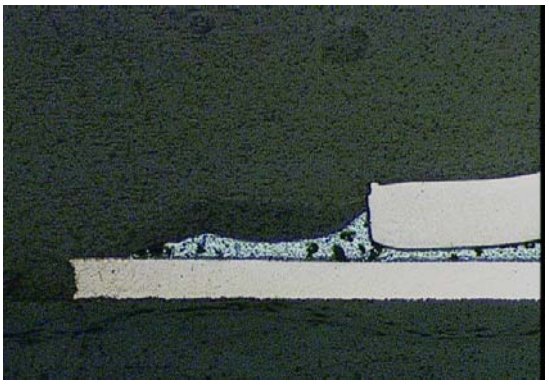
PWB41 - U3- SnPb Solder, NiPdAu Finish @25x



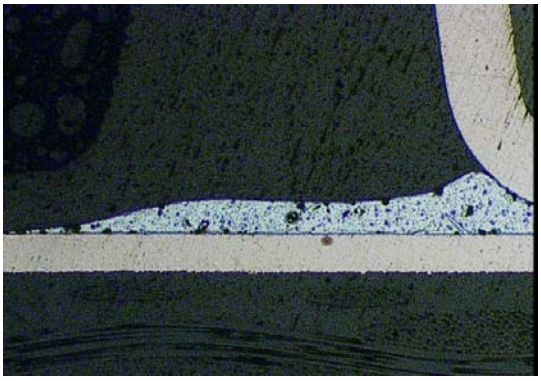
PWB41 - U3- SnPb Solder, NiPdAu Finish @50x



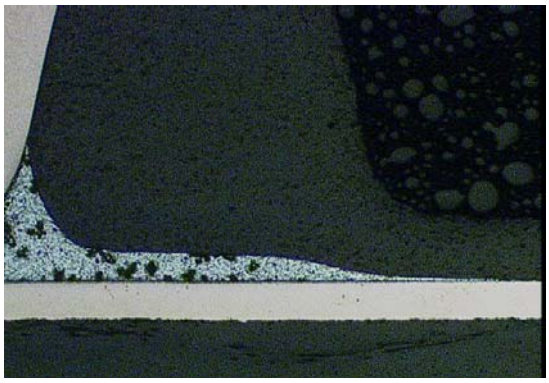
PWB41 - U3- SnPb Solder, NiPdAu Finish @50x



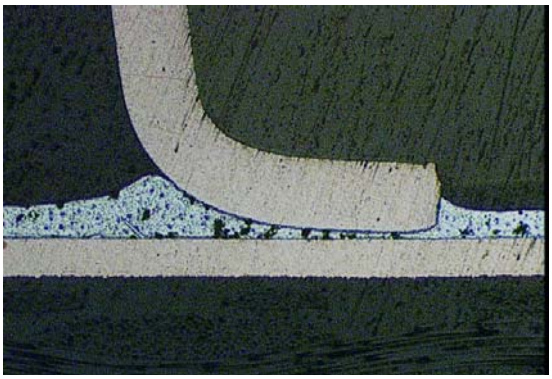
PWB41 - U3- SnPb Solder, NiPdAu Finish @50x



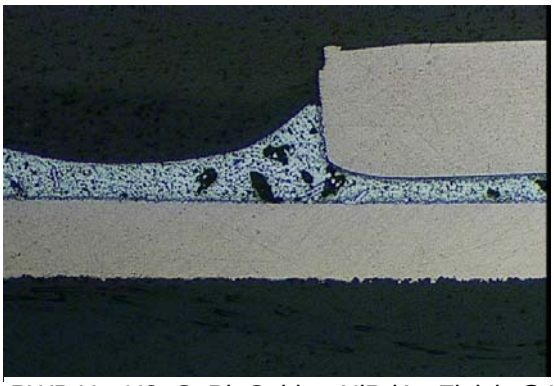
PWB41 - U3- SnPb Solder, NiPdAu Finish @50x



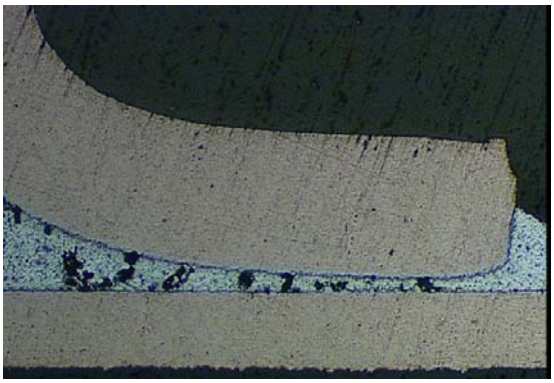
PWB41 - U3- SnPb Solder, NiPdAu Finish @50x



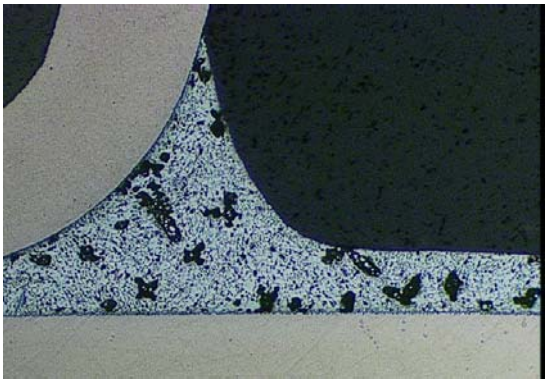
PWB41 - U3- SnPb Solder, NiPdAu Finish @50x



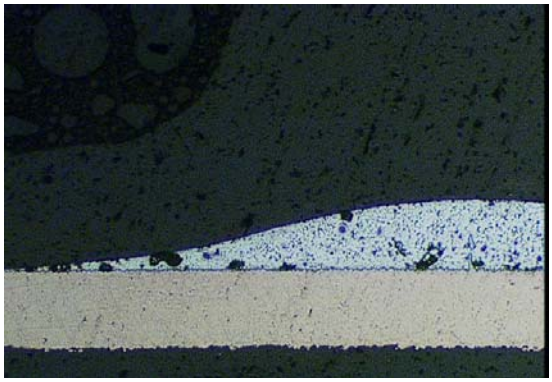
PWB41 - U3- SnPb Solder, NiPdAu Finish @100x



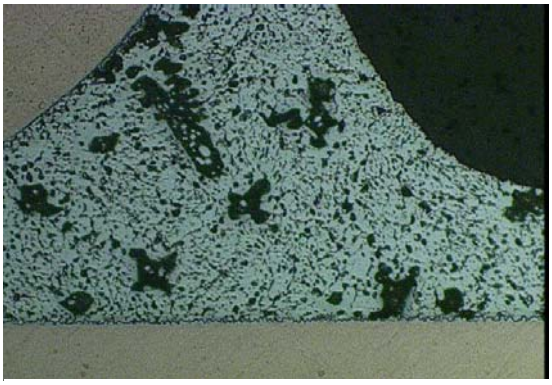
PWB41 - U3- SnPb Solder, NiPdAu Finish @100x



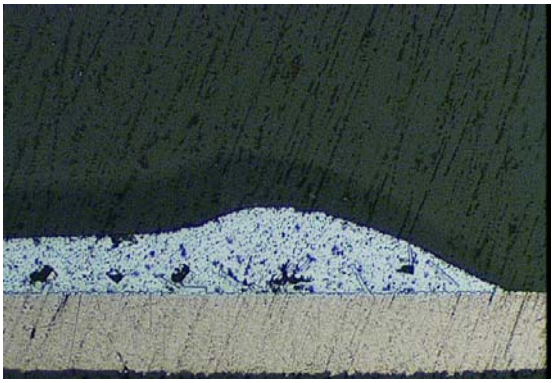
PWB41 - U3- SnPb Solder, NiPdAu Finish @100x



PWB41 - U3- SnPb Solder, NiPdAu Finish @100x

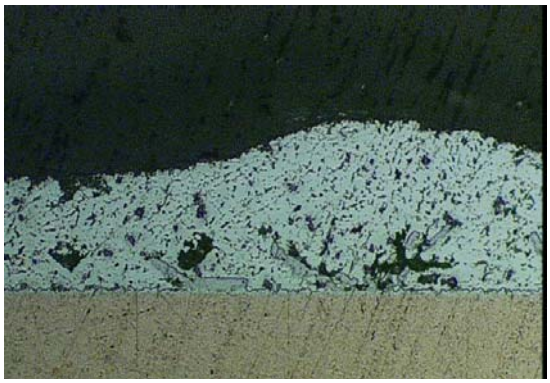


PWB41 - U3- SnPb Solder, NiPdAu Finish @200x

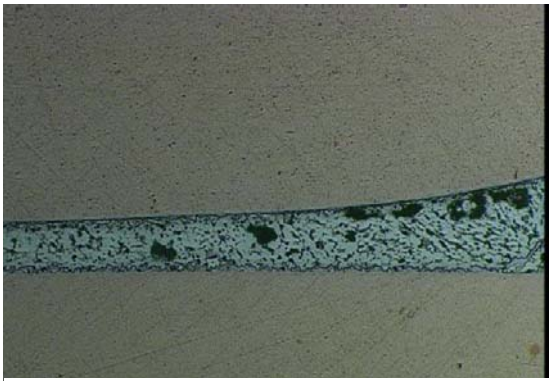


PWB41 - U3- SnPb Solder, NiPdAu Finish @100x

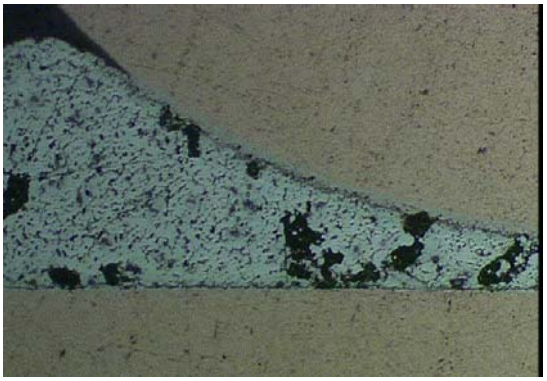
PWB41 - U3- SnPb Solder, NiPdAu Finish @200x



PWB41 - U3- SnPb Solder, NiPdAu Finish @200x

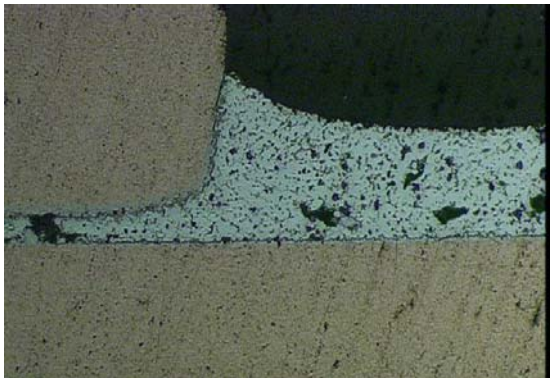


PWB41 - U3- SnPb Solder, NiPdAu Finish @200x

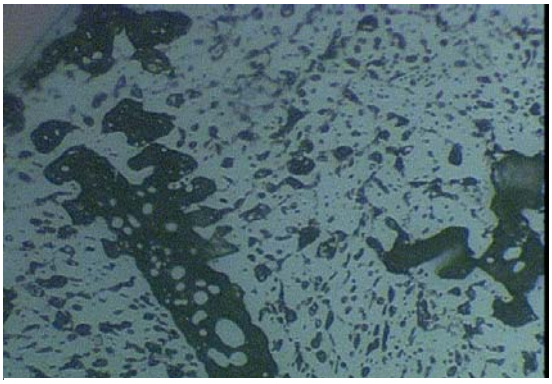


PWB41 - U3- SnPb Solder, NiPdAu Finish @200x

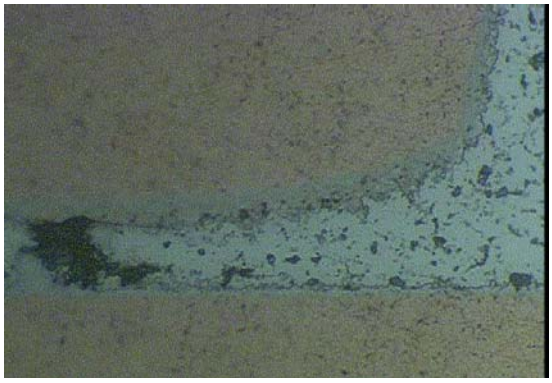
PWB41 - U3- SnPb Solder, NiPdAu Finish @500x



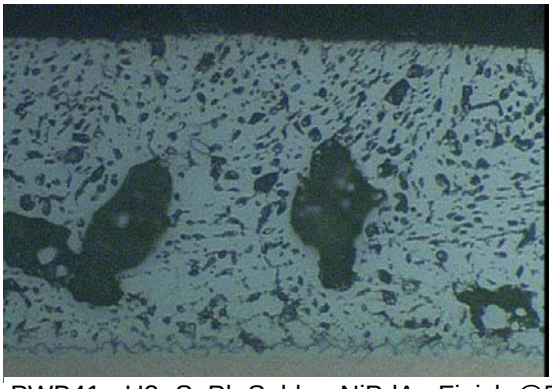
PWB41 - U3- SnPb Solder, NiPdAu Finish @200x



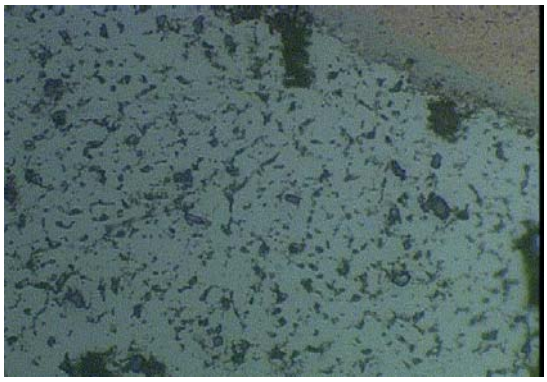
PWB41 - U3- SnPb Solder, NiPdAu Finish @500x



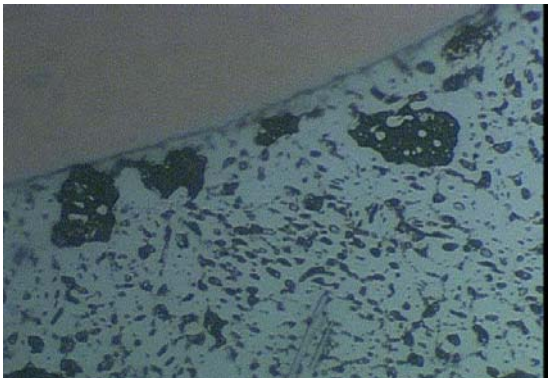
PWB41 - U3- SnPb Solder, NiPdAu Finish @500x



PWB41 - U3- SnPb Solder, NiPdAu Finish @500x



PWB41 - U3- SnPb Solder, NiPdAu Finish @500x

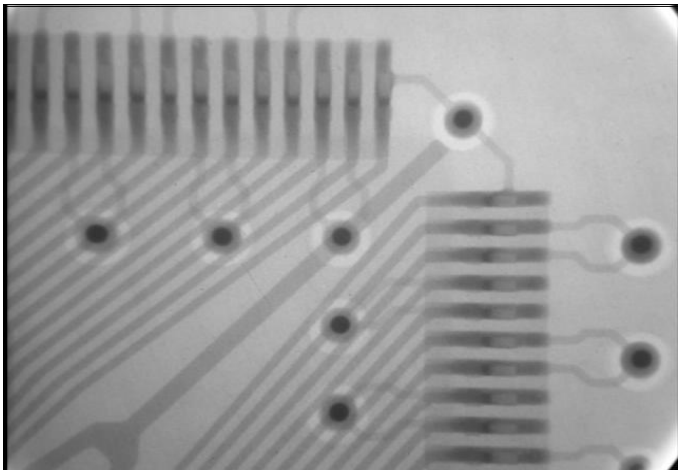


PWB41 - U3- SnPb Solder, NiPdAu Finish @500x

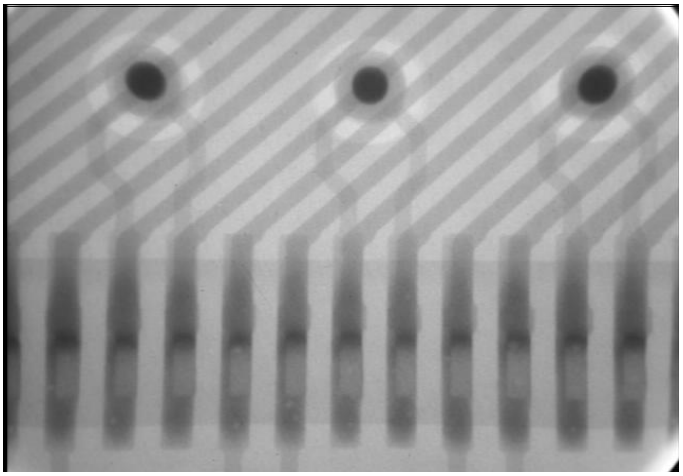
PWB41 - U3- SnPb Solder, NiPdAu Finish @500x

Part # U3

X-Ray

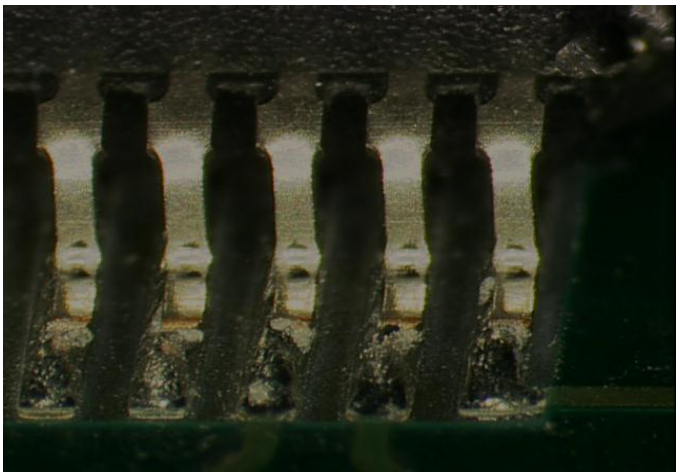


PWB41 - U3- SnPb Solder, NiPdAu Finish, X-Ray

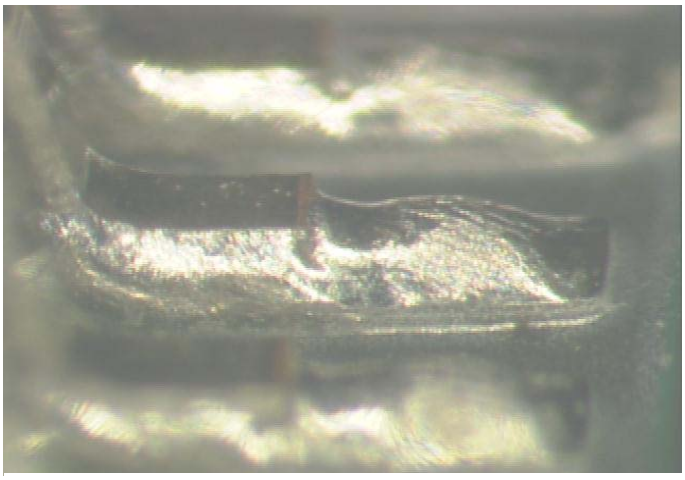


PWB41 - U3- SnPb Solder, NiPdAu Finish, X-Ray

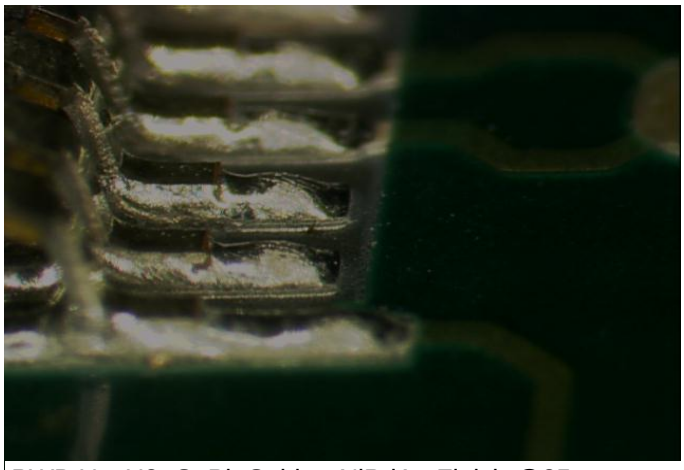
Microscope



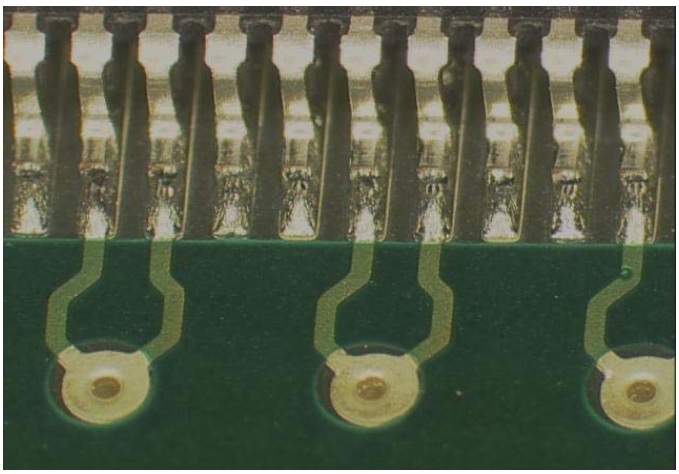
PWB41 - U3- SnPb Solder, NiPdAu Finish @17x



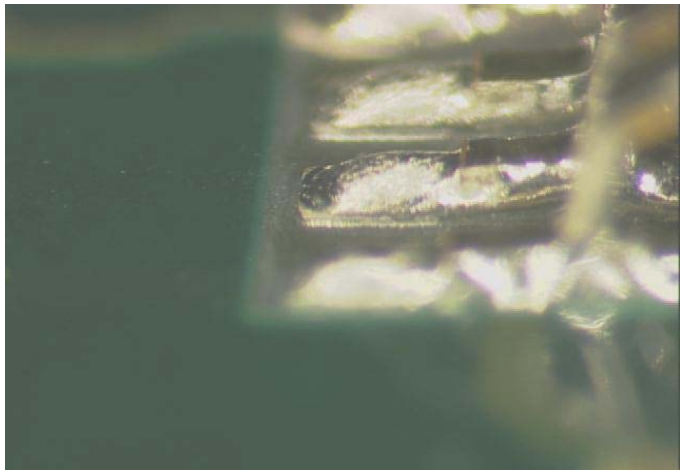
PWB41 - U3- SnPb Solder, NiPdAu Finish @55x



PWB41 - U3- SnPb Solder, NiPdAu Finish @25x



PWB41 - U3- SnPb Solder, NiPdAu Finish @13x



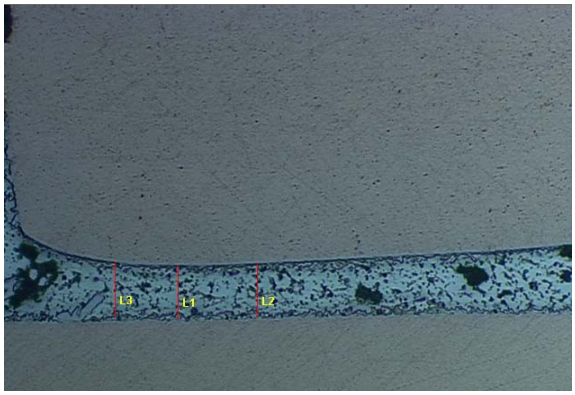
PWB41 - U3- SnPb Solder, NiPdAu Finish @30x

Part # U3

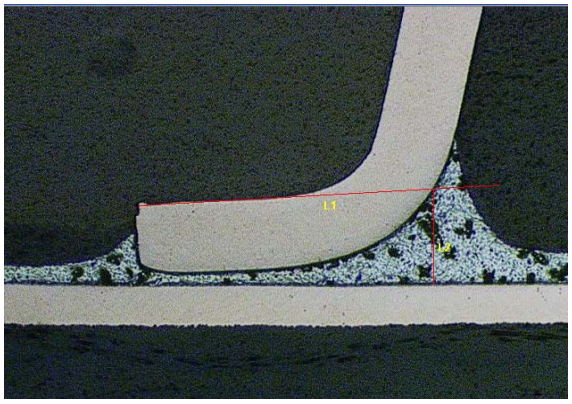
Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0009710
Meas 2	0.0009565
Meas 3	0.0009855
Avg	0.0009710

Min. Required Heel Fillet (in.)
0.0067052

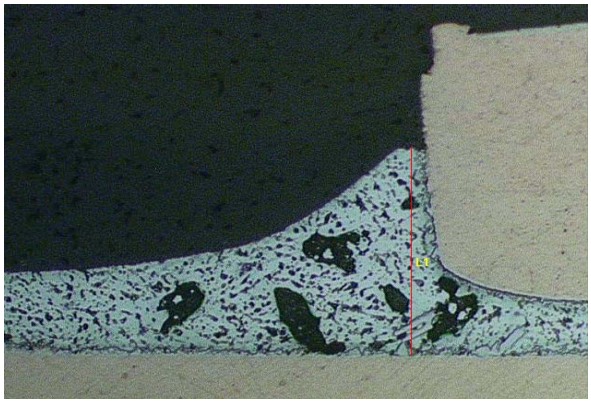


PWB41 - U3- Min. Lead/Pad Distance



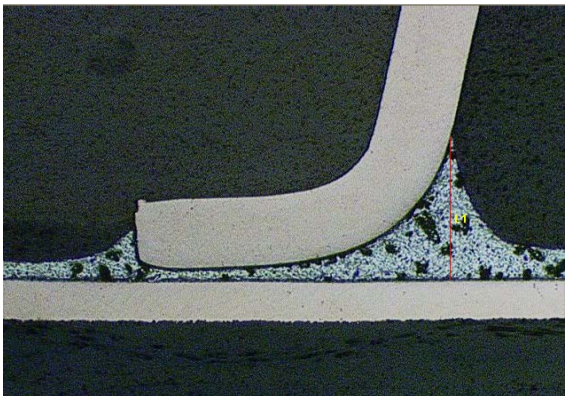
PWB41 - U3- Min. Required Heel Fillet

Toe (in.)
0.0036521



PWB41 - U3- Toe

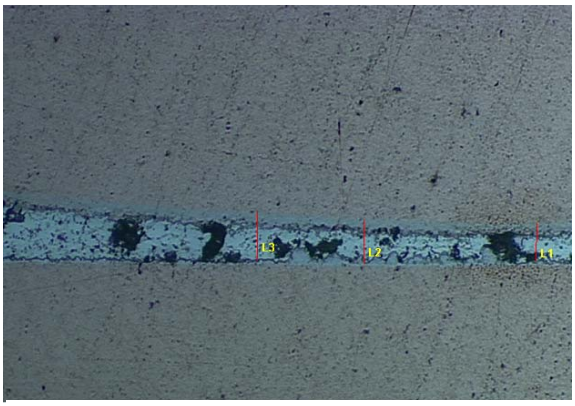
Heel Fillet (in.)
0.0101156



PWB41 - U3- Heel Fillet

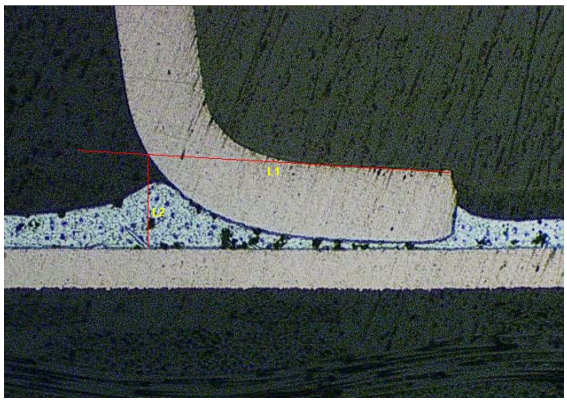
Right

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0006668
Meas 2	0.0007681
Meas 3	0.0008405
Avg	0.0007585



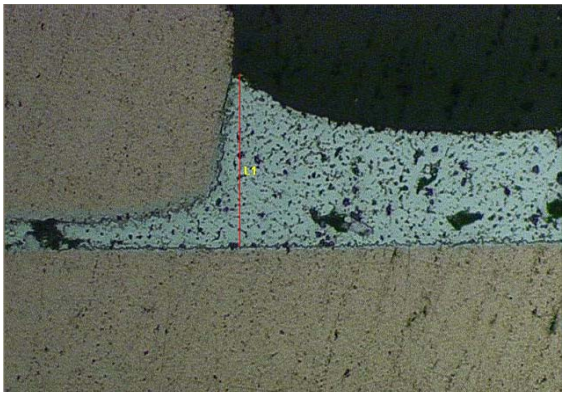
PWB41 - U3- Min. Lead/Pad Distance

Min. Required Heel Fillet (in.)
0.0047976



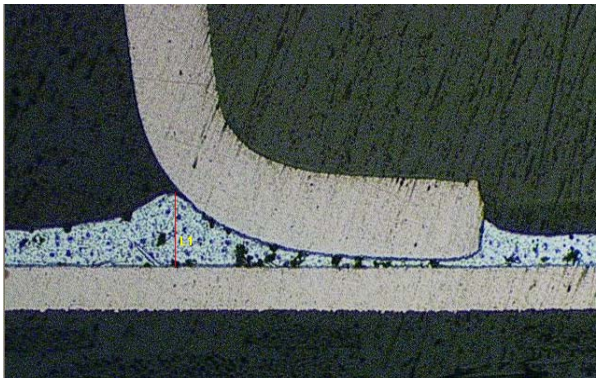
PWB41 - U3- Min. Required Heel Fillet

Toe (in.)
0.0031014



PWB41 - U3- Toe

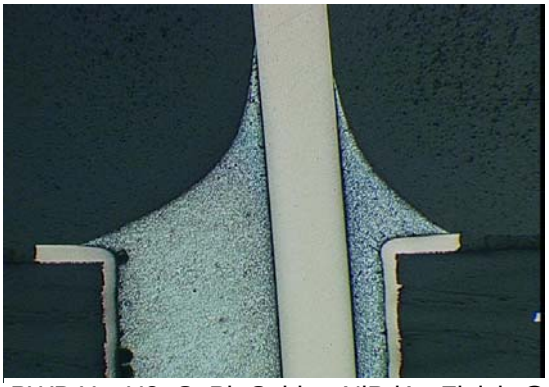
Heel Fillet (in.)
0.0047976



PWB41 - U3- Heel Fillet

U8

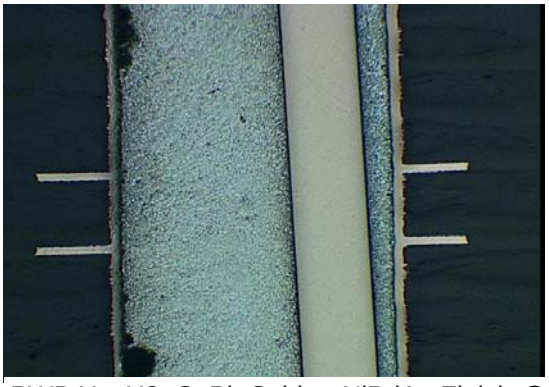
Left Side



PWB41 - U8- SnPb Solder, NiPdAu Finish @25x

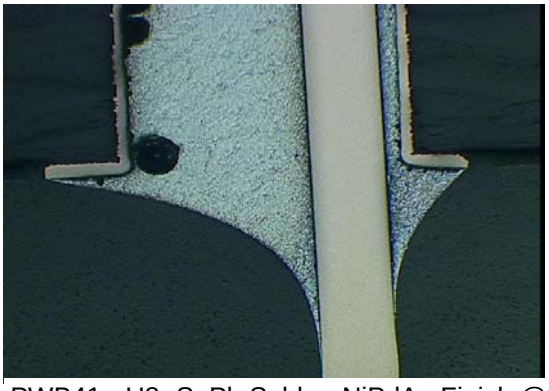
Left Side

PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

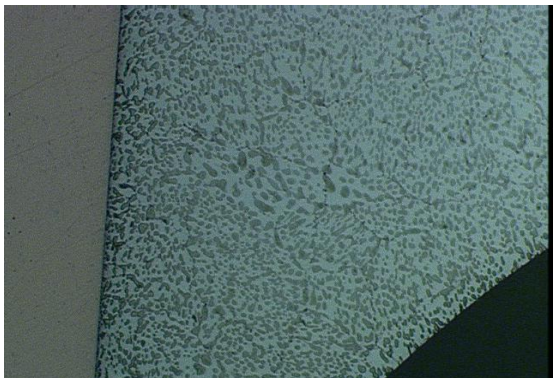


PWB41 - U8- SnPb Solder, NiPdAu Finish @25x

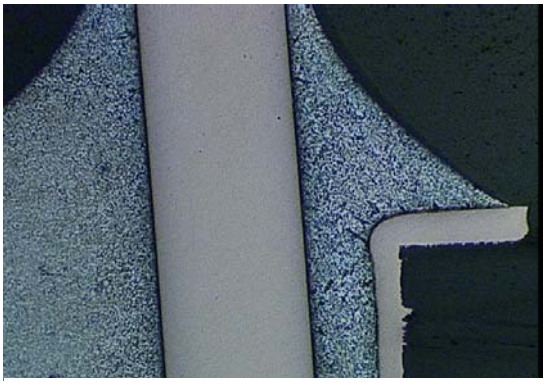
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



PWB41 - U8- SnPb Solder, NiPdAu Finish @25x

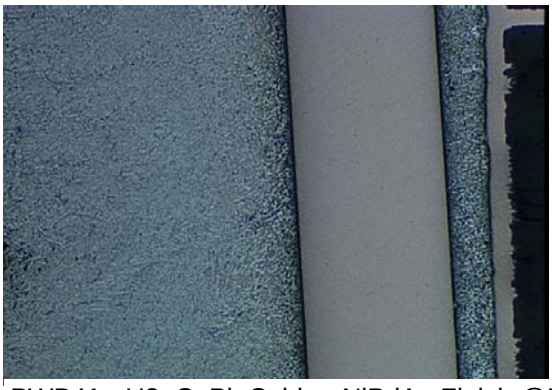


PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

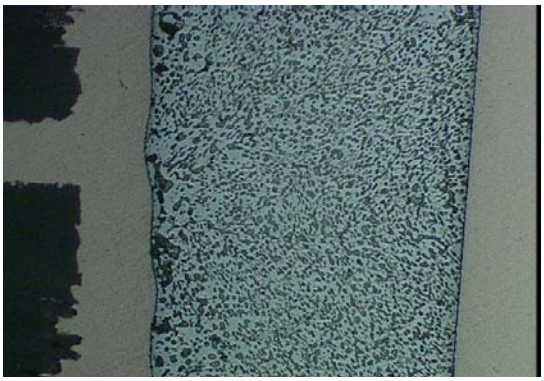


PWB41 - U8- SnPb Solder, NiPdAu Finish @50x

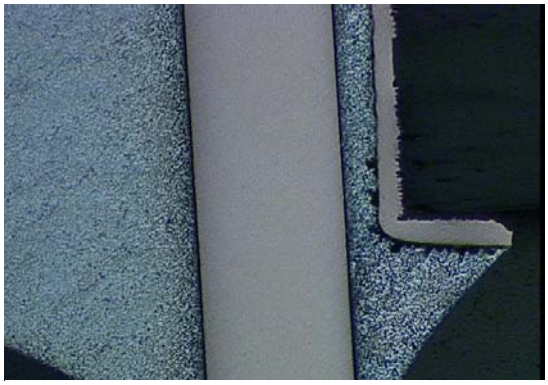
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



PWB41 - U8- SnPb Solder, NiPdAu Finish @50x

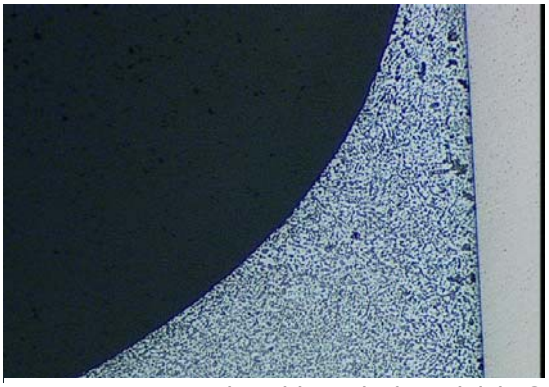


PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

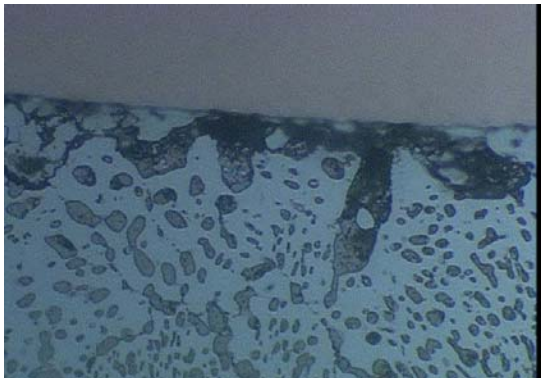


PWB41 - U8- SnPb Solder, NiPdAu Finish @50x

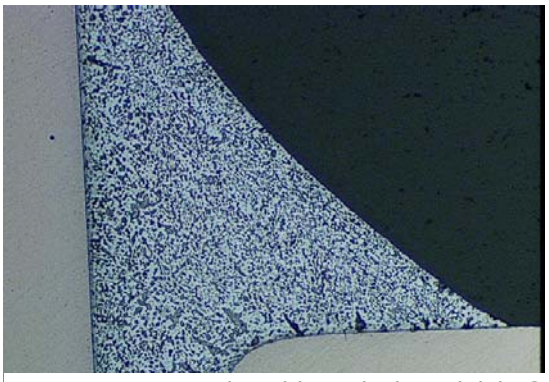
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



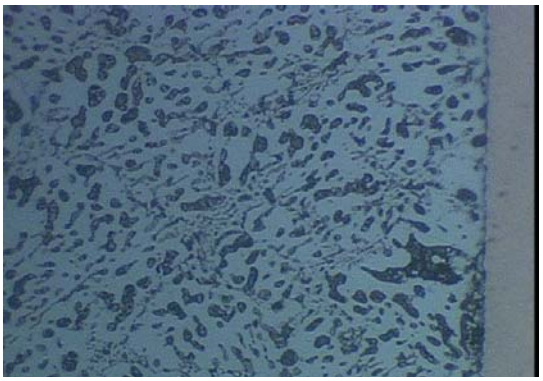
PWB41 - U8- SnPb Solder, NiPdAu Finish @100x



PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

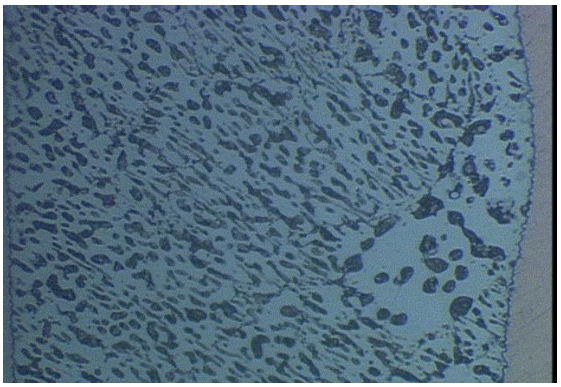


PWB41 - U8- SnPb Solder, NiPdAu Finish @100x

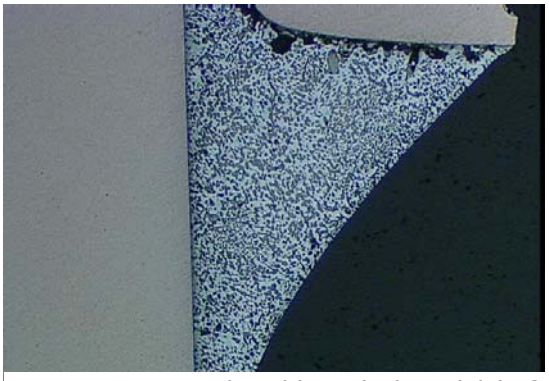


PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

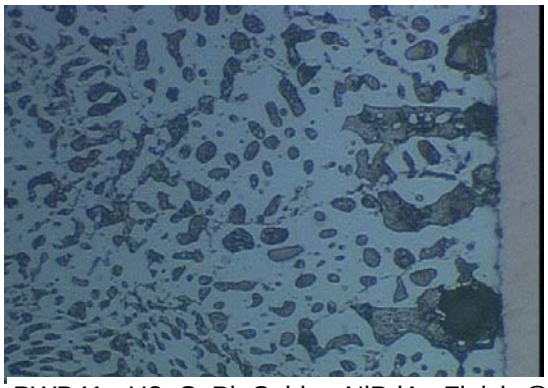
PWB41 - U8- SnPb Solder, NiPdAu Finish @100x



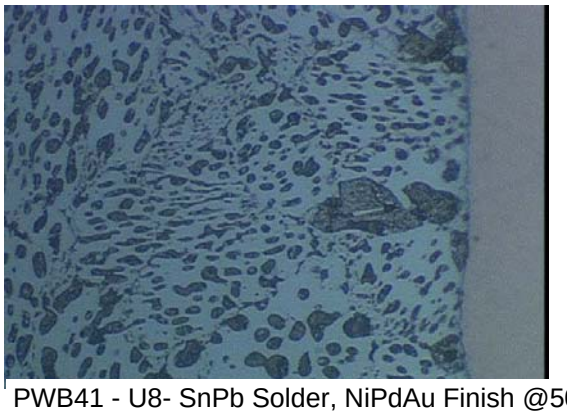
PWB41 - U8- SnPb Solder, NiPdAu Finish @500x



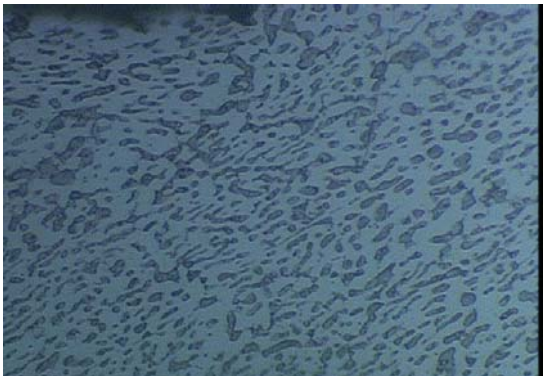
PWB41 - U8- SnPb Solder, NiPdAu Finish @100x



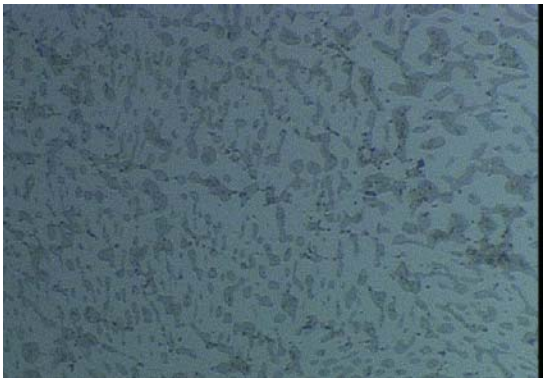
PWB41 - U8- SnPb Solder, NiPdAu Finish @500x



PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

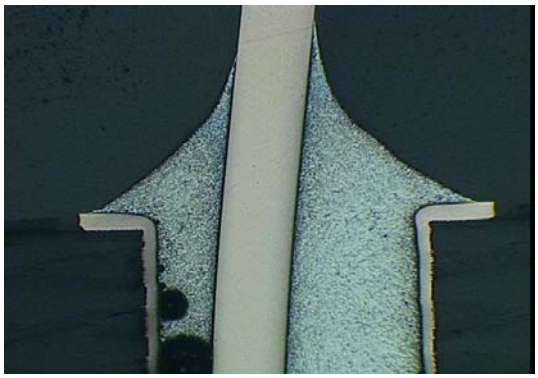


PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

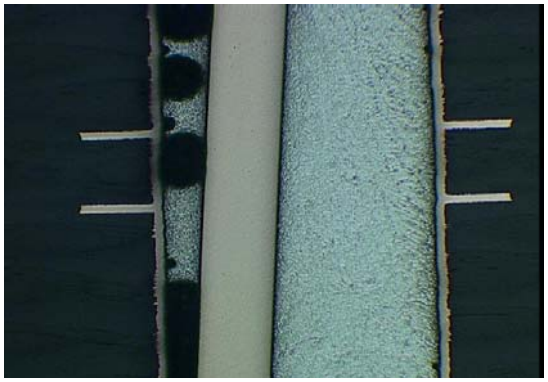


PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

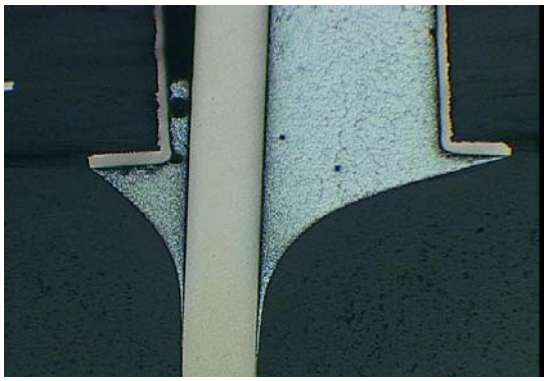
Right Side **Right Side**

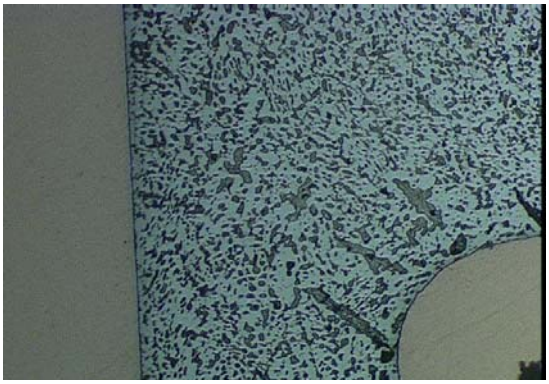


PWB41 - U8- SnPb Solder, NiPdAu Finish @25x PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

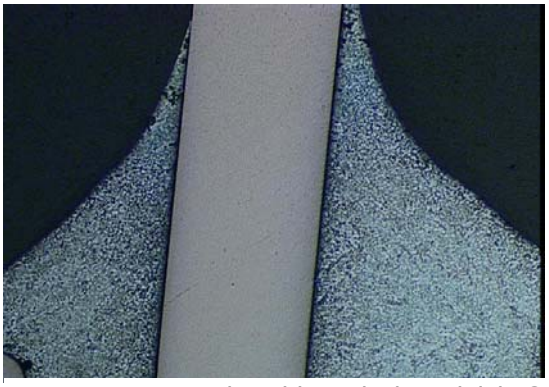


PWB41 - U8- SnPb Solder, NiPdAu Finish @25x PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

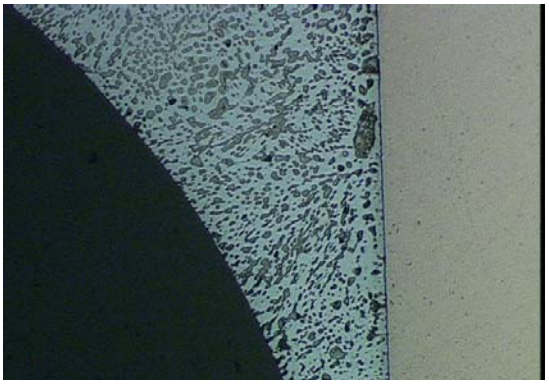




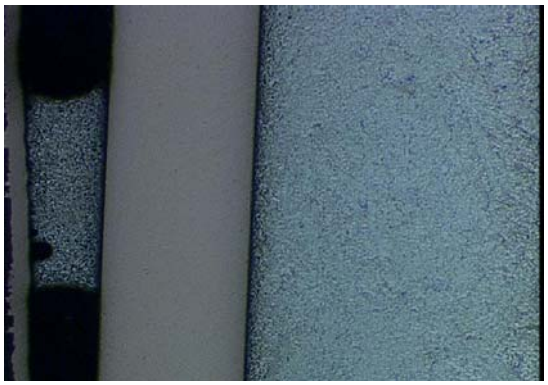
PWB41 - U8- SnPb Solder, NiPdAu Finish @25x PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



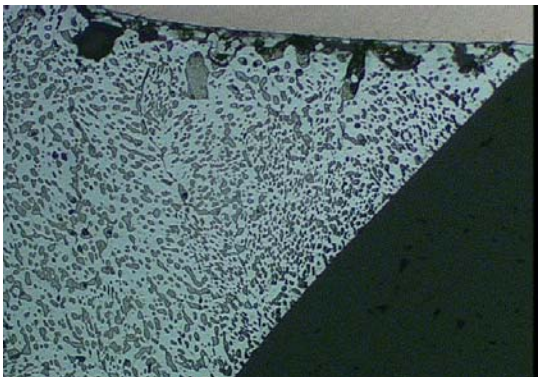
PWB41 - U8- SnPb Solder, NiPdAu Finish @50x



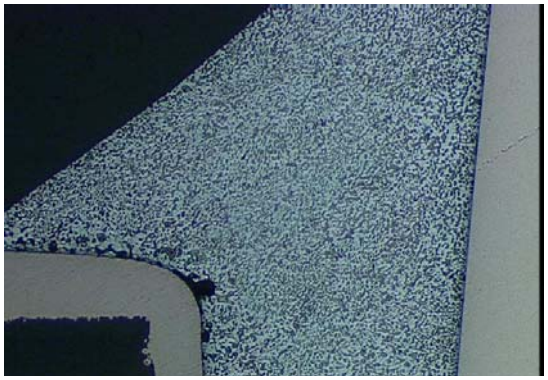
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



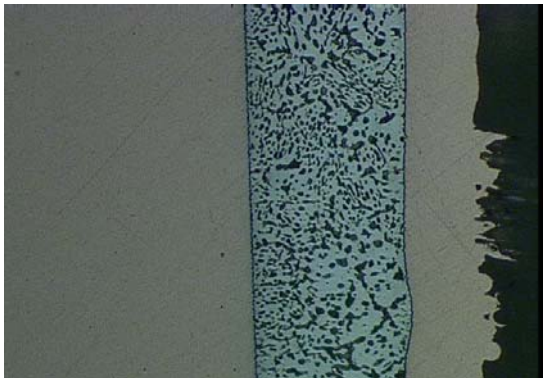
PWB41 - U8- SnPb Solder, NiPdAu Finish @50x



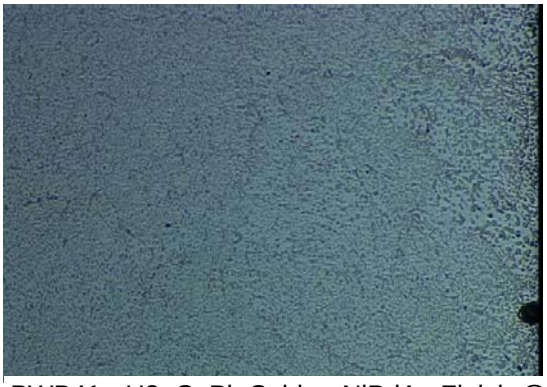
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



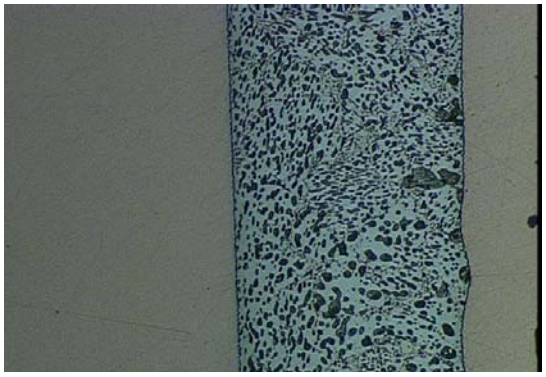
PWB41 - U8- SnPb Solder, NiPdAu Finish @100x



PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

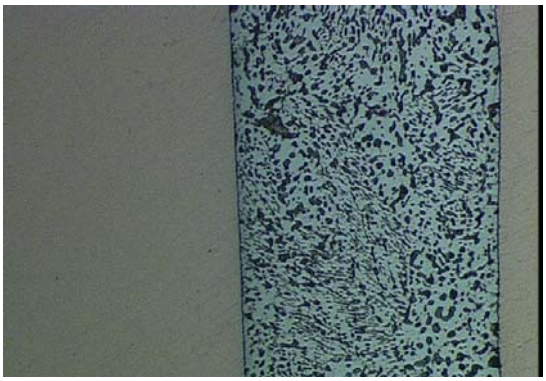


PWB41 - U8- SnPb Solder, NiPdAu Finish @100x



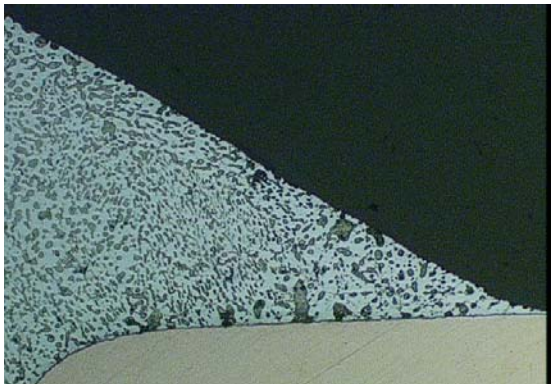
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

PWB41 - U8- SnPb Solder, NiPdAu Finish @100x

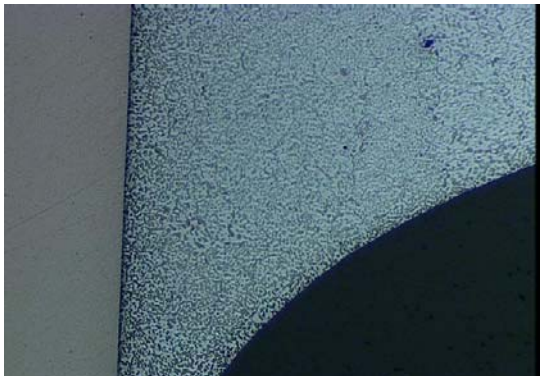


PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

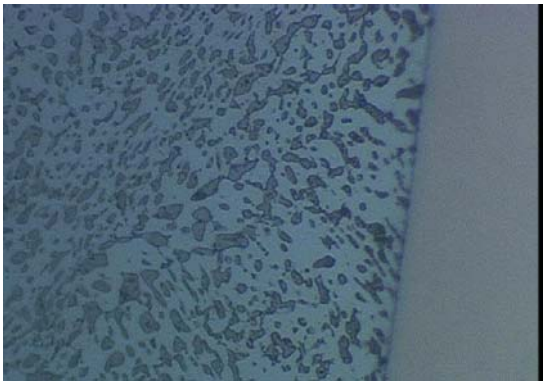
PWB41 - U8- SnPb Solder, NiPdAu Finish @100x



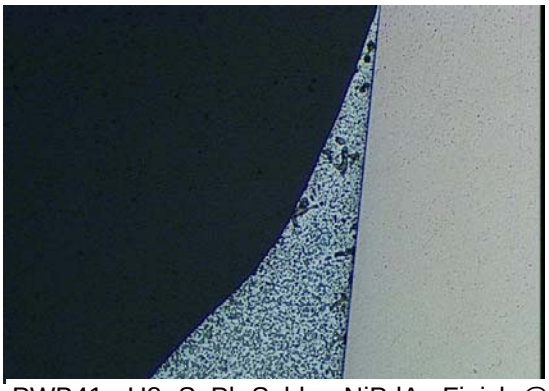
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



PWB41 - U8- SnPb Solder, NiPdAu Finish @100x

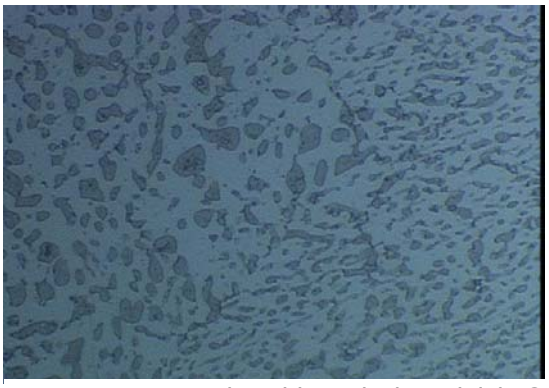


PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

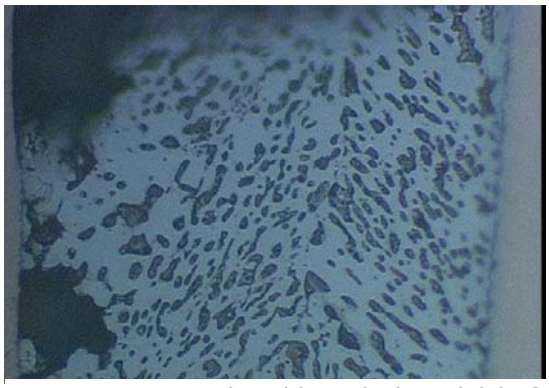


PWB41 - U8- SnPb Solder, NiPdAu Finish @100x

PWB41 - U8- SnPb Solder, NiPdAu Finish @500x



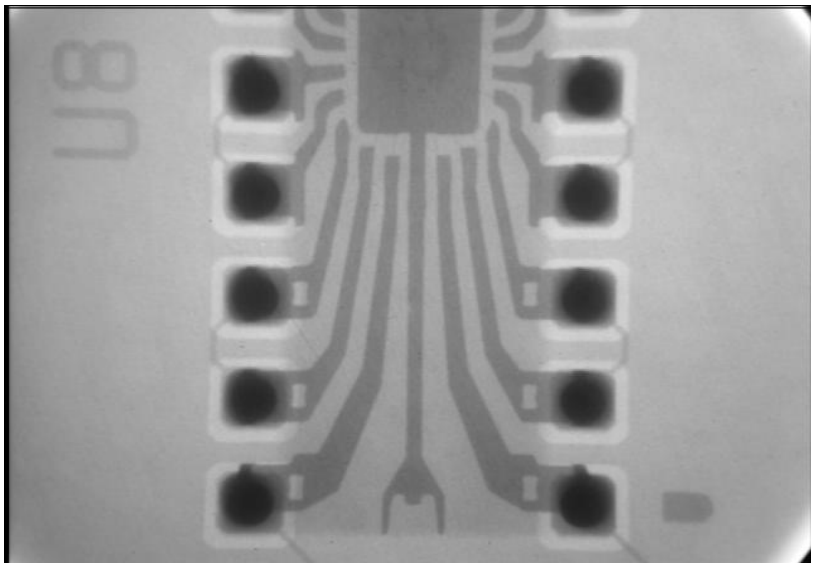
PWB41 - U8- SnPb Solder, NiPdAu Finish @500x



PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

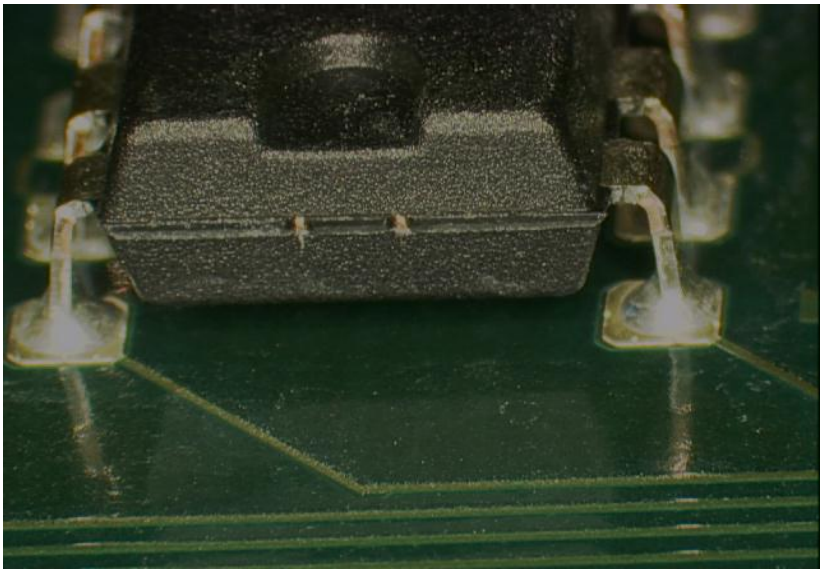
Part # U8

X-Ray

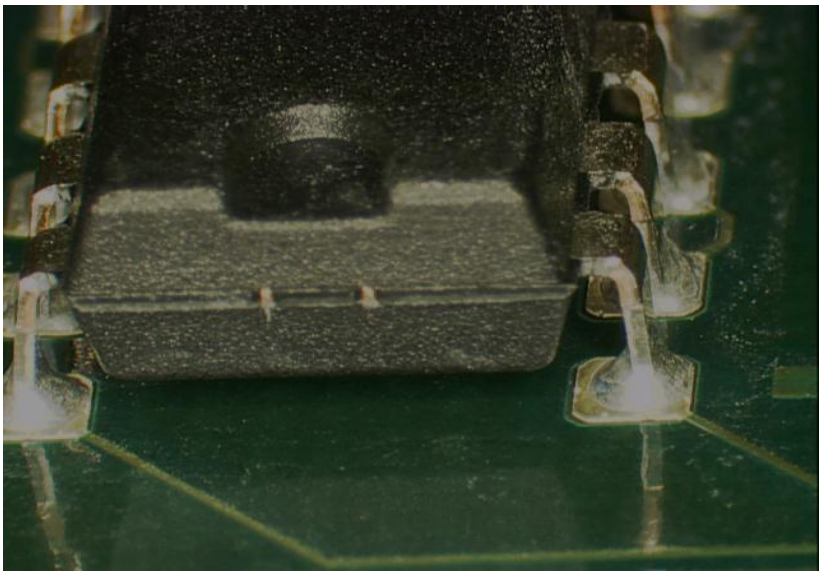


PWB41 - U8- SnPb Solder, NiPdAu Finish, X-Ray

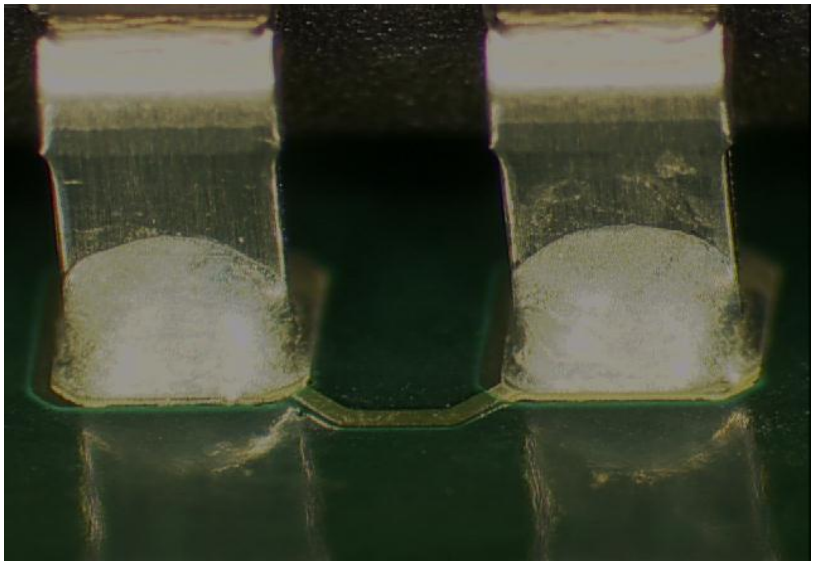
Microscope



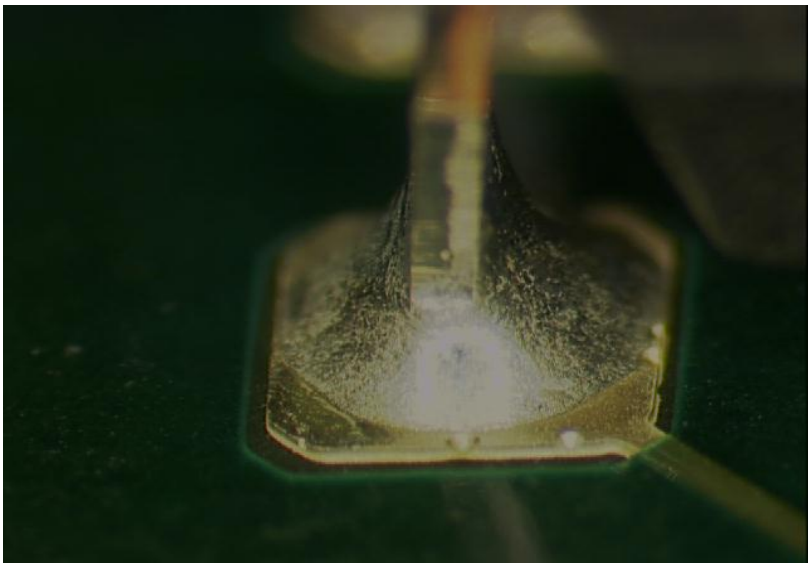
PWB41 - U8- SnPb Solder, NiPdAu Finish @6x



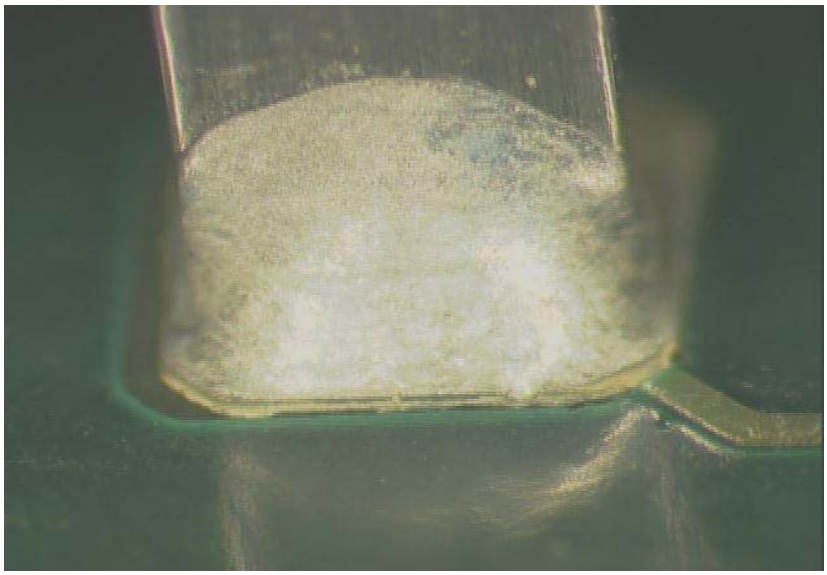
PWB41 - U8- SnPb Solder, NiPdAu Finish @6x



PWB41 - U8- SnPb Solder, NiPdAu Finish @13x



PWB41 - U8- SnPb Solder, NiPdAu Finish @21x

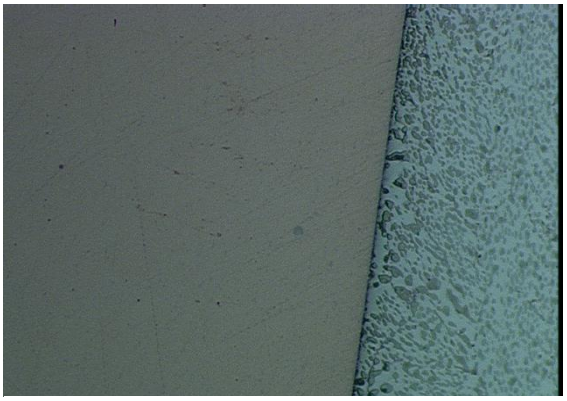


PWB41 - U8- SnPb Solder, NiPdAu Finish @24x

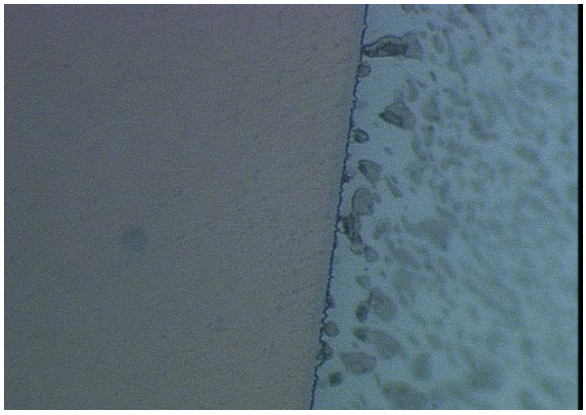
Part # U8

Left

****Note : Did not measure intermetallic layer**

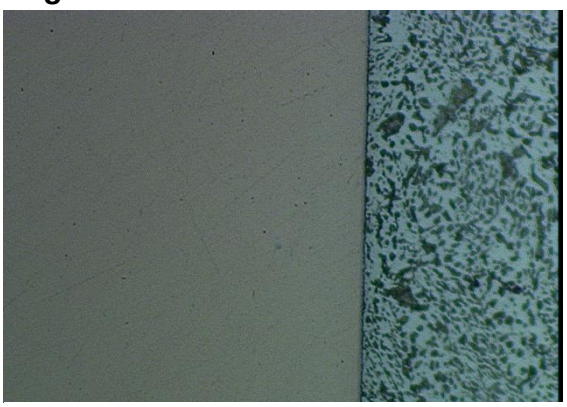


PWB41 - U8- SnPb Solder, NiPdAu Finish @200x

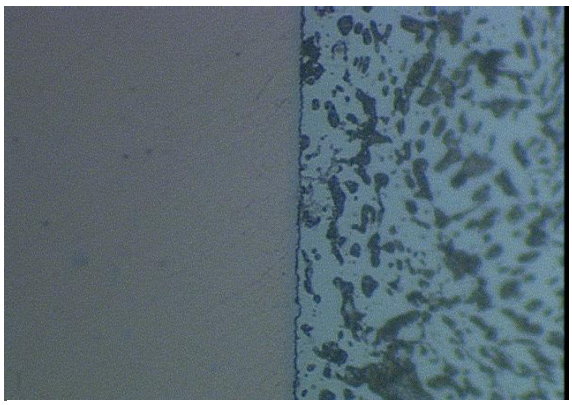


PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

Right



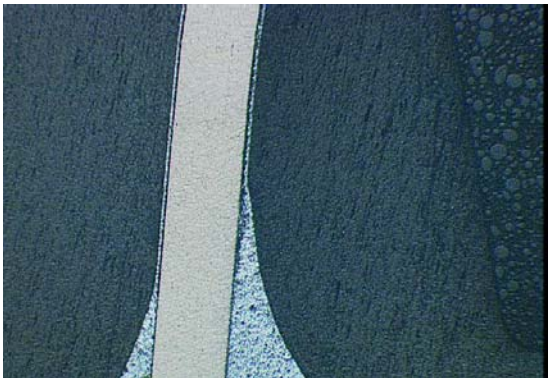
PWB41 - U8- SnPb Solder, NiPdAu Finish @200x



PWB41 - U8- SnPb Solder, NiPdAu Finish @500x

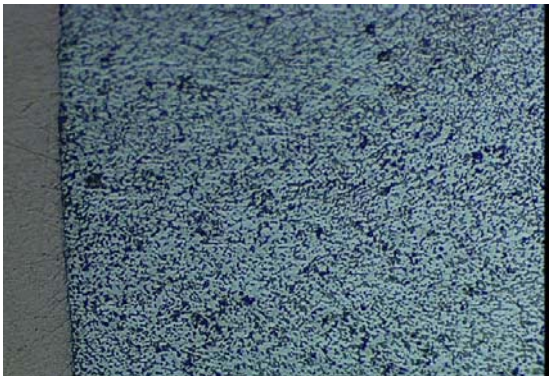
U11

Left Side

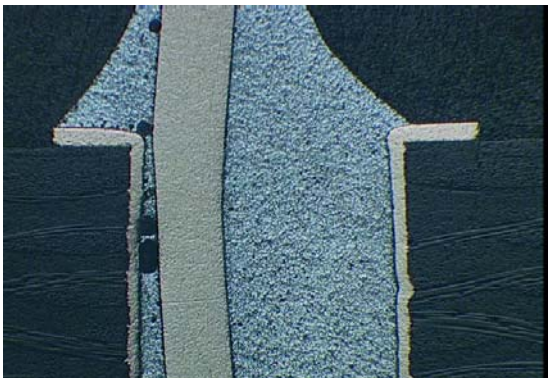


PWB41 - U11- SnPb Solder, Sn Finish @25x

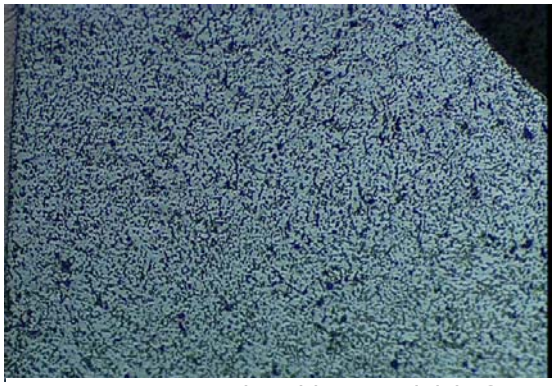
Left Side



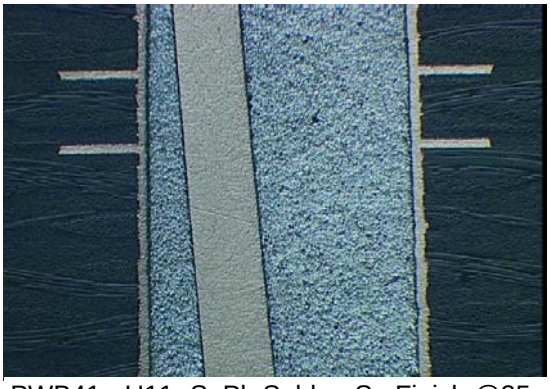
PWB41 - U11- SnPb Solder, Sn Finish @100x



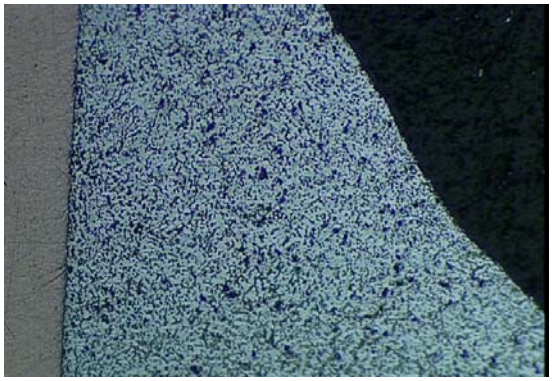
PWB41 - U11- SnPb Solder, Sn Finish @25x



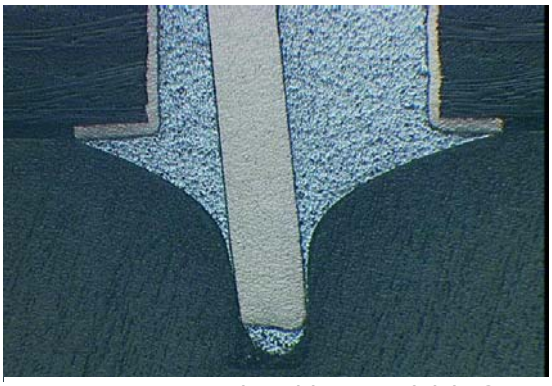
PWB41 - U11- SnPb Solder, Sn Finish @100x



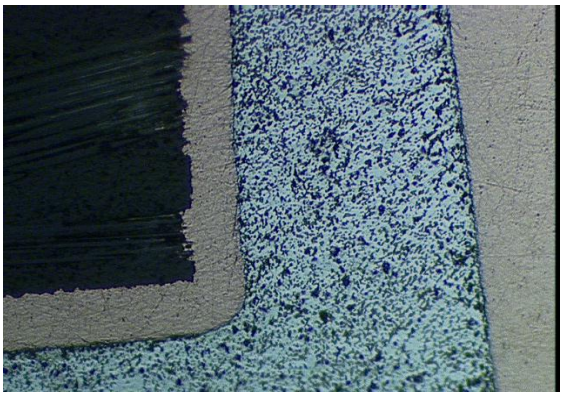
PWB41 - U11- SnPb Solder, Sn Finish @25x



PWB41 - U11- SnPb Solder, Sn Finish @100x

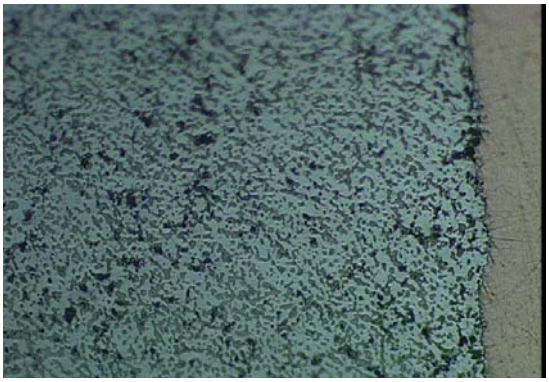


PWB41 - U11- SnPb Solder, Sn Finish @25x

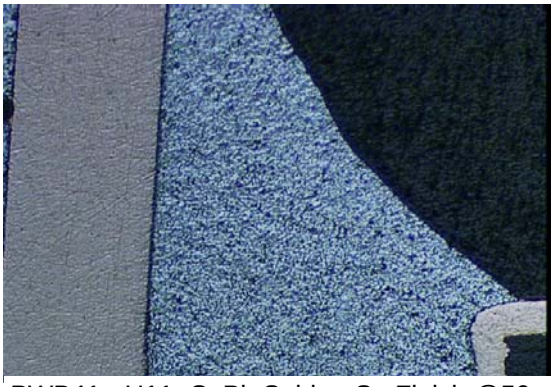


PWB41 - U11- SnPb Solder, Sn Finish @100x

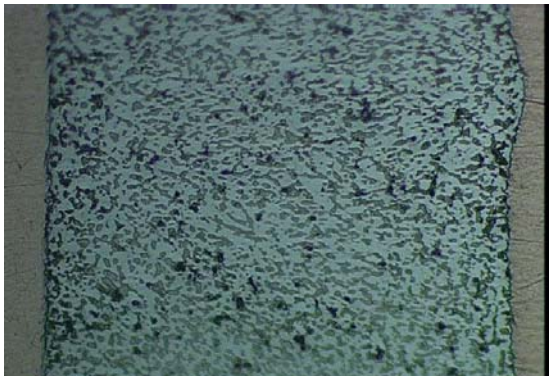
PWB41 - U11- SnPb Solder, Sn Finish @50x



PWB41 - U11- SnPb Solder, Sn Finish @200x

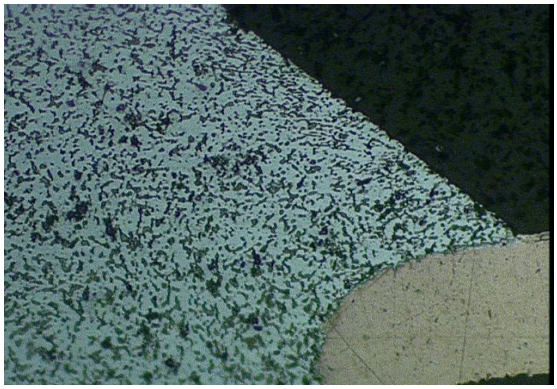


PWB41 - U11- SnPb Solder, Sn Finish @50x



PWB41 - U11- SnPb Solder, Sn Finish @200x

PWB41 - U11- SnPb Solder, Sn Finish @50x



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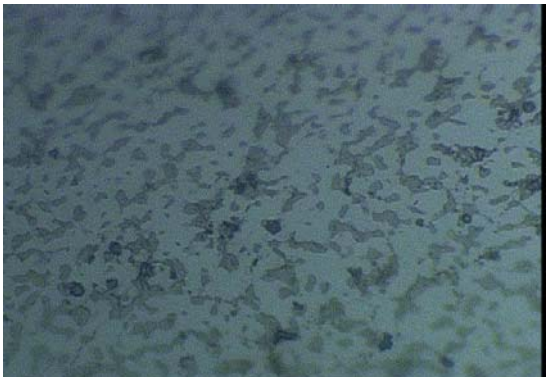
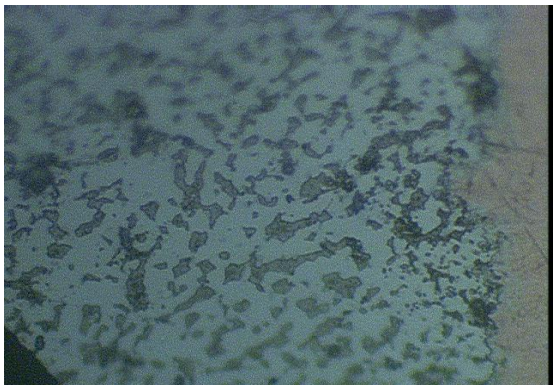
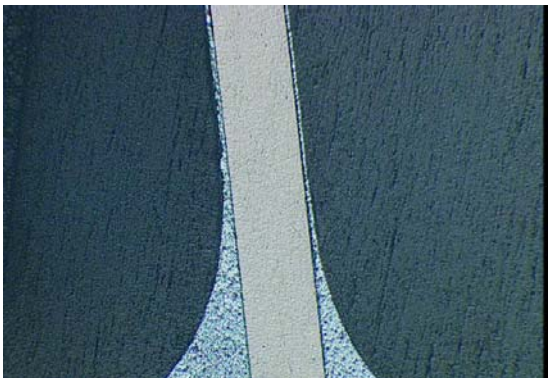


PWB41 - U11- SnPb Solder, Sn Finish @500x



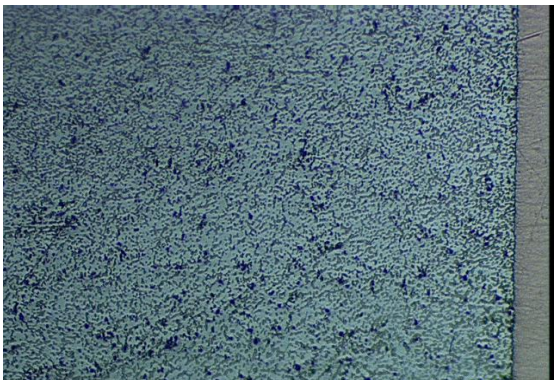
PWB41 - U11- SnPb Solder, Sn Finish @500x

Right Side

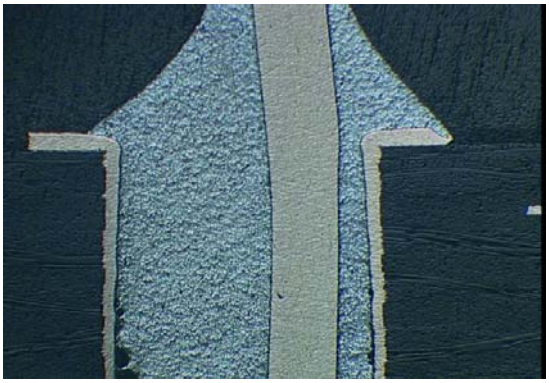


PWB41 - U11- SnPb Solder, Sn Finish @25x

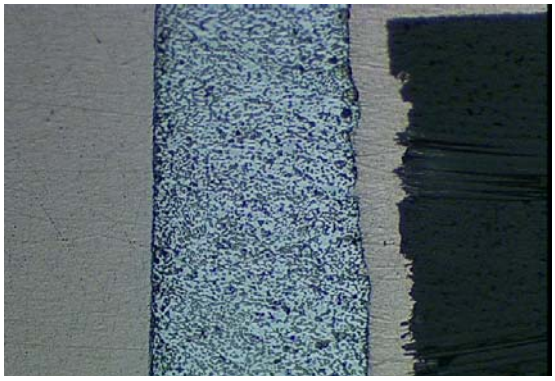
Right Side



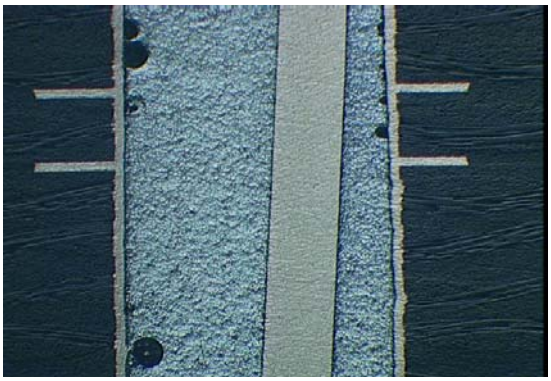
PWB41 - U11- SnPb Solder, Sn Finish @100x



PWB41 - U11- SnPb Solder, Sn Finish @25x



PWB41 - U11- SnPb Solder, Sn Finish @100x



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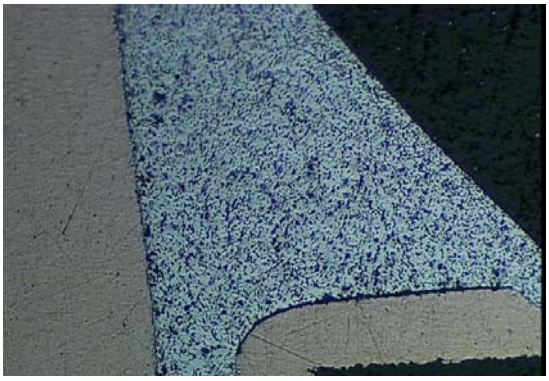

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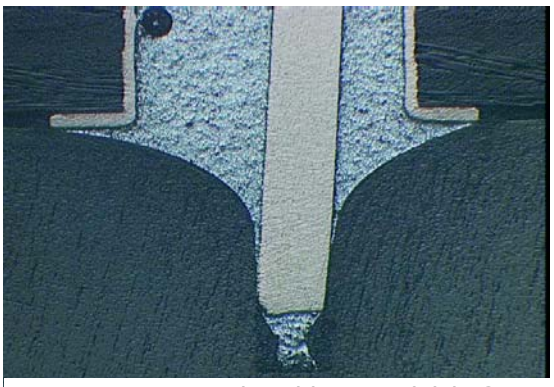
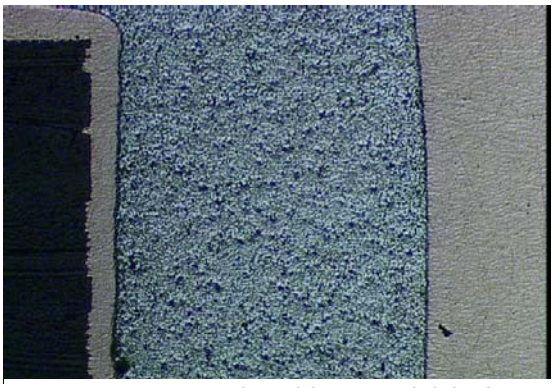
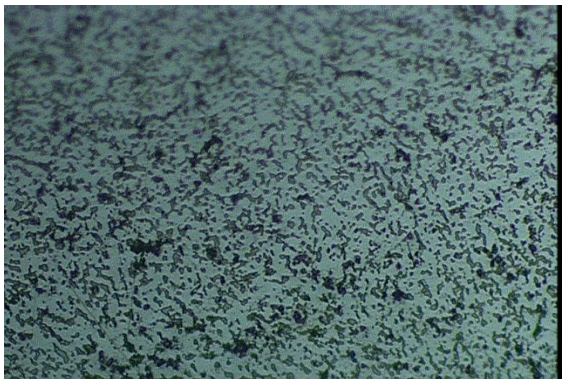


PWB41 - U11- SnPb Solder, Sn Finish @25x

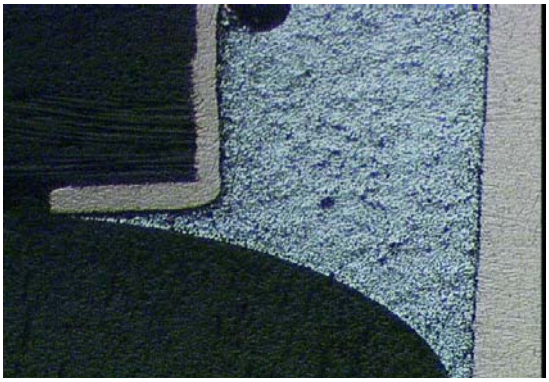
PWB41 - U11- SnPb Solder, Sn Finish @200x



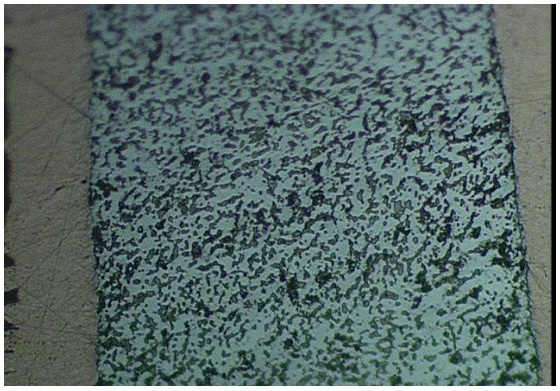
PWB41 - U11- SnPb Solder, Sn Finish @50x



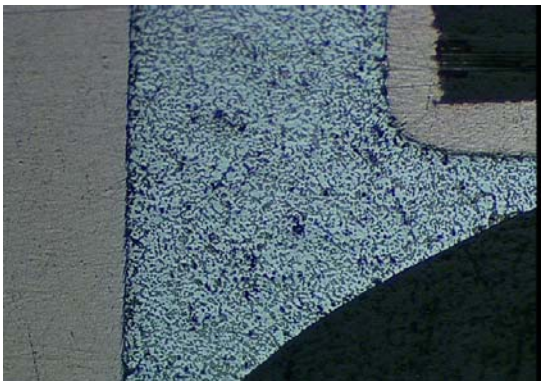
PWB41 - U11- SnPb Solder, Sn Finish @200x



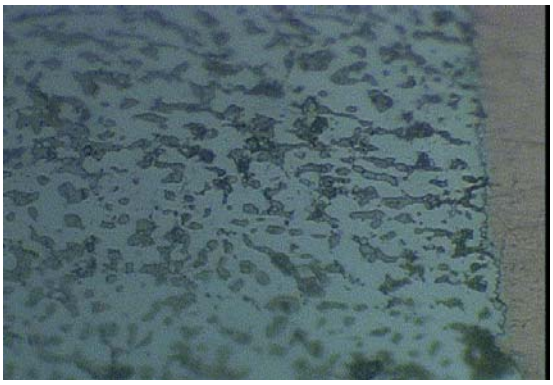
PWB41 - U11- SnPb Solder, Sn Finish @50x



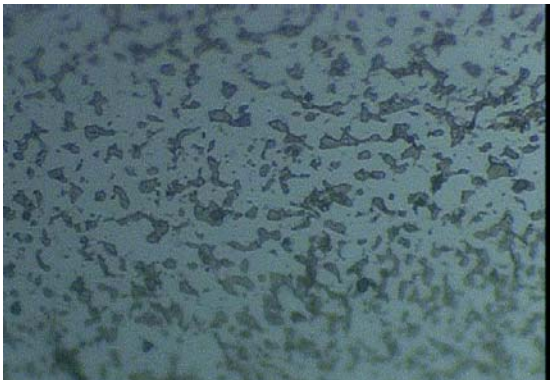
PWB41 - U11- SnPb Solder, Sn Finish @200x



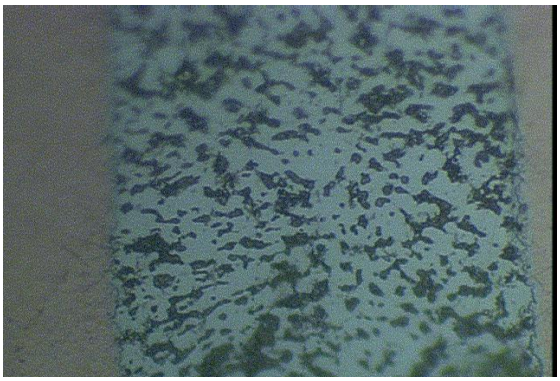
PWB41 - U11- SnPb Solder, Sn Finish @100x



PWB41 - U11- SnPb Solder, Sn Finish @500x



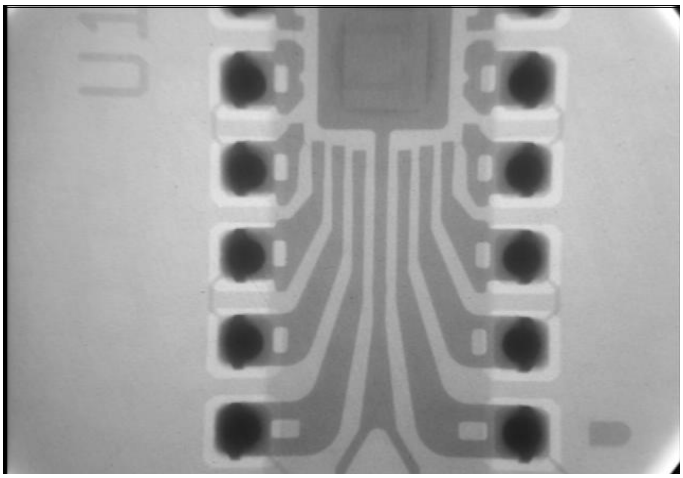
PWB41 - U11- SnPb Solder, Sn Finish @500x



PWB41 - U11- SnPb Solder, Sn Finish @500x

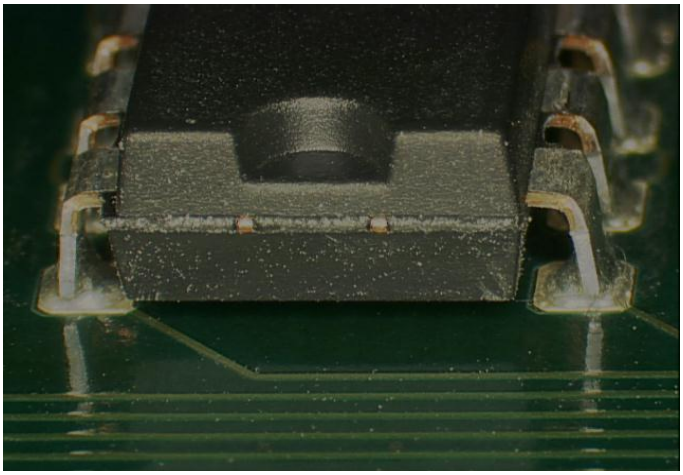
Part # U11

X-Ray

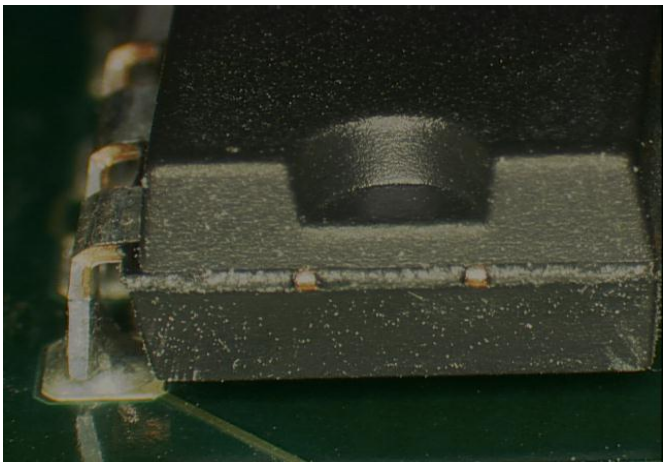


PWB41 - U11- SnPb Solder, Sn Finish, X-Ray

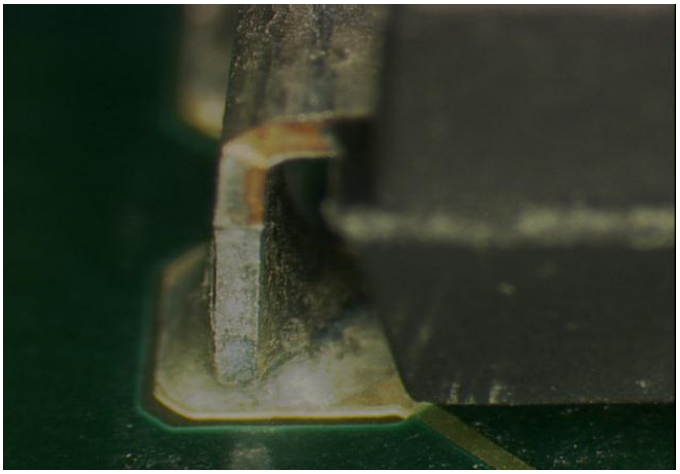
Microscope



PWB41 - U11- SnPb Solder, Sn Finish @6x



PWB41 - U11- SnPb Solder, Sn Finish @8.5x

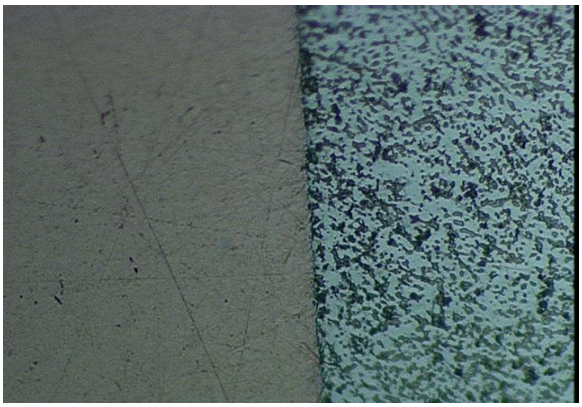


PWB41 - U11- SnPb Solder, Sn Finish @17x

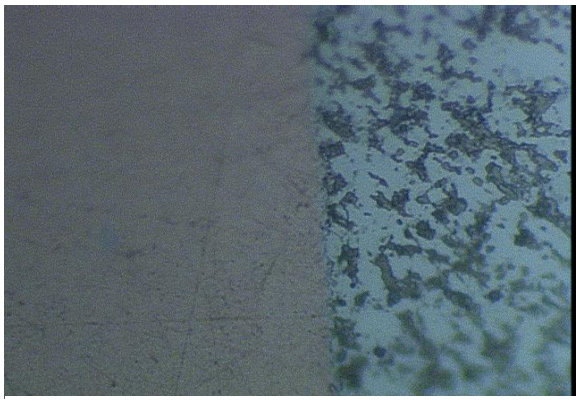
Part # U11

Left

****Note : Did not measure intermetallic layer**

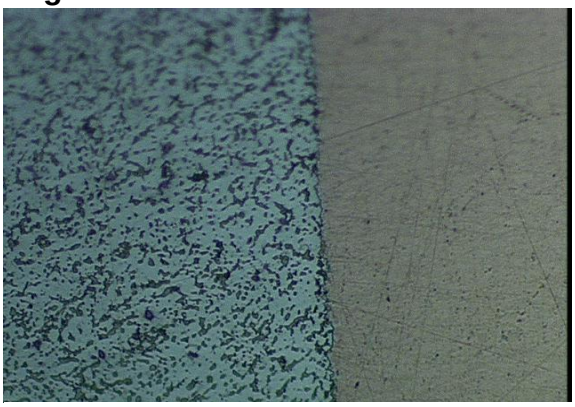


PWB41 - U11- SnPb Solder, Sn Finish @200x

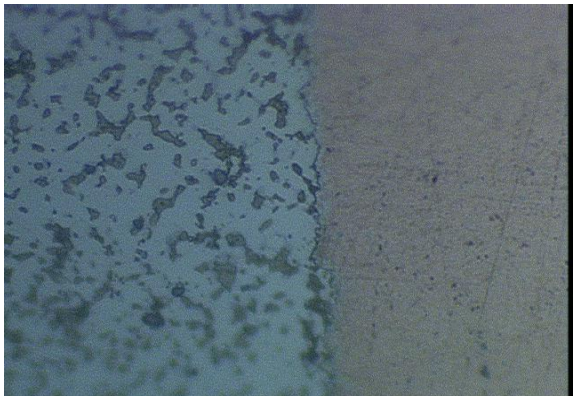


PWB41 - U11- SnPb Solder, Sn Finish @500x

Right

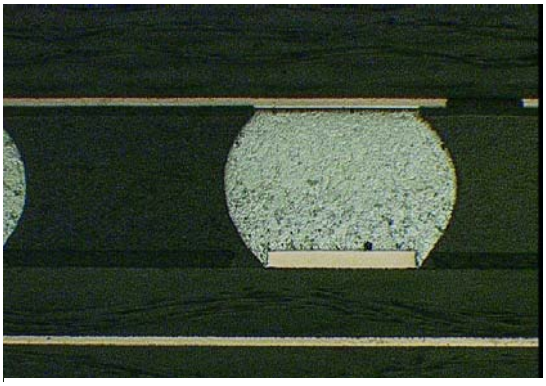


PWB41 - U11- SnPb Solder, Sn Finish @200x

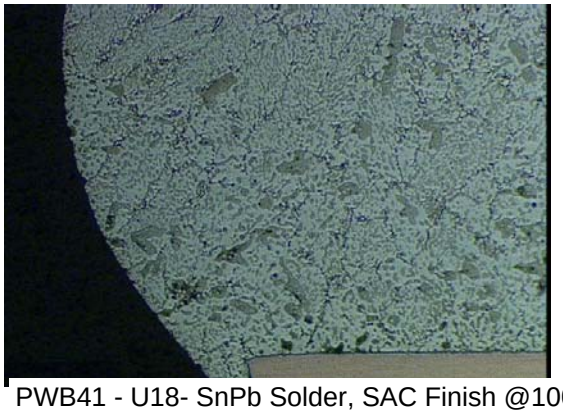


PWB41 - U11- SnPb Solder, Sn Finish @500x

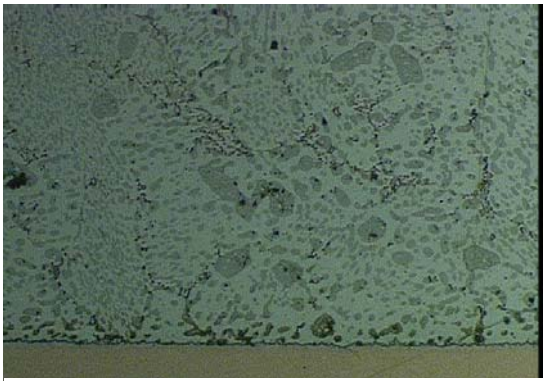
Part # U18



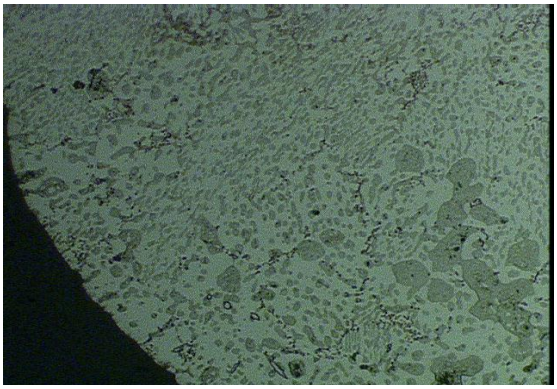
PWB41 - U18- SnPb Solder, SAC Finish @25x



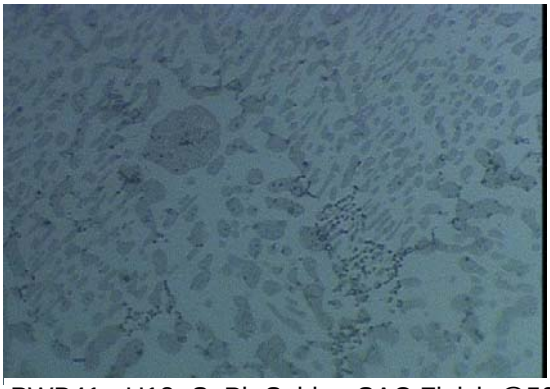
PWB41 - U18- SnPb Solder, SAC Finish @100x



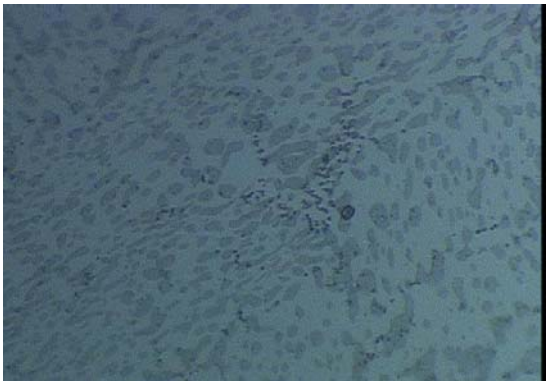
PWB41 - U18- SnPb Solder, SAC Finish @200x



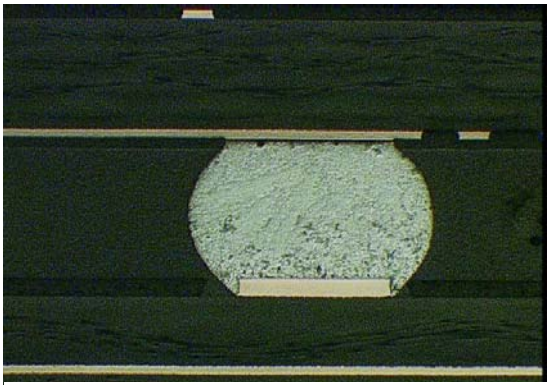
PWB41 - U18- SnPb Solder, SAC Finish @200x



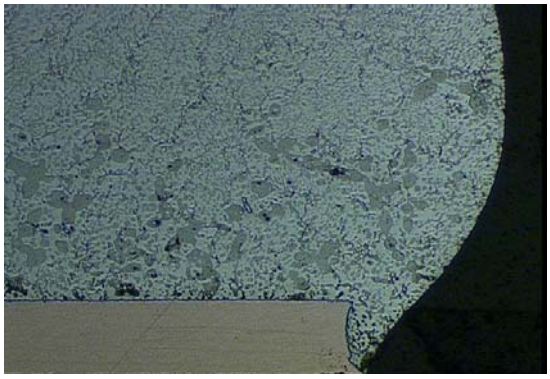
PWB41 - U18- SnPb Solder, SAC Finish @500x



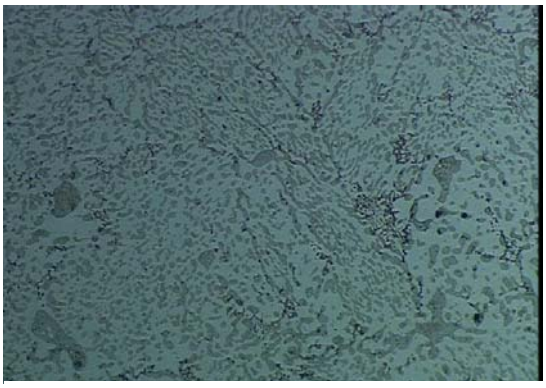
PWB41 - U18- SnPb Solder, SAC Finish @500x



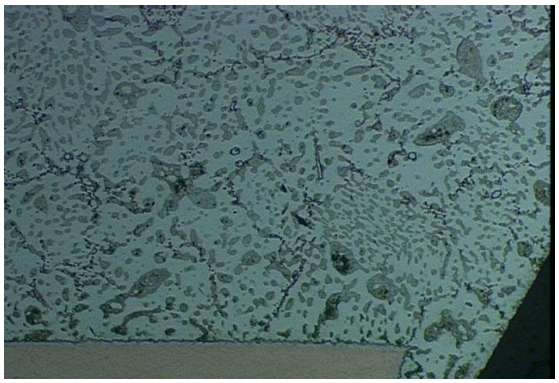
PWB41 - U18- SnPb Solder, SAC Finish @25x



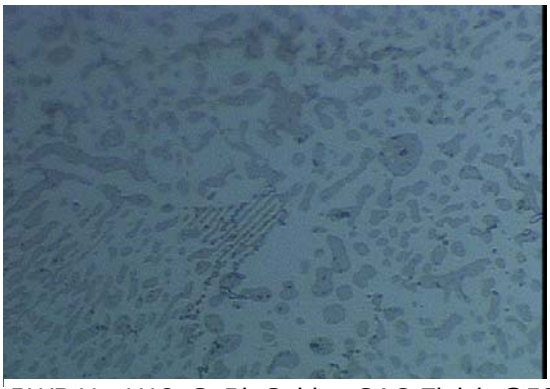
PWB41 - U18- SnPb Solder, SAC Finish @100x



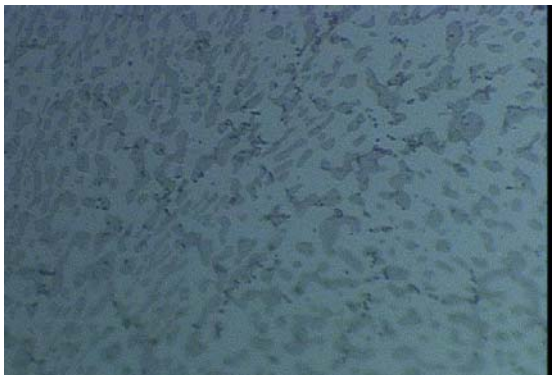
PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @500x



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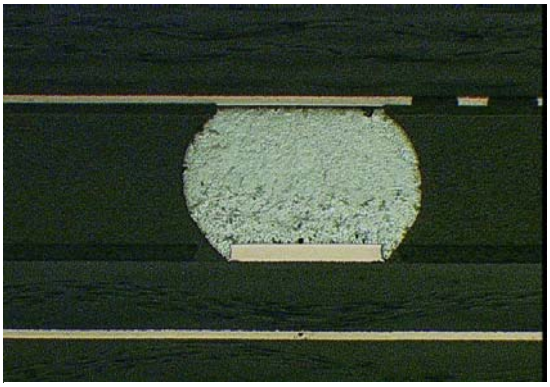
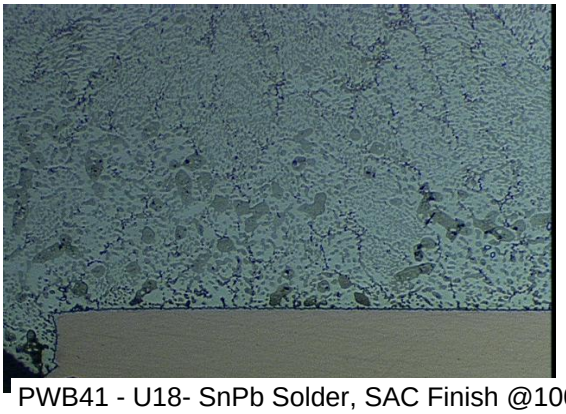
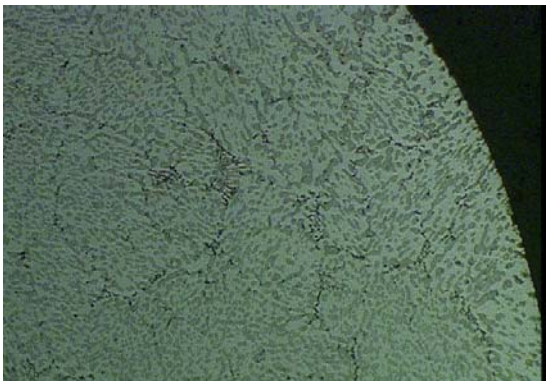


PWB41 - U18- SnPb Solder, SAC Finish @25x



PWB41 - U18- SnPb Solder, SAC Finish @100x



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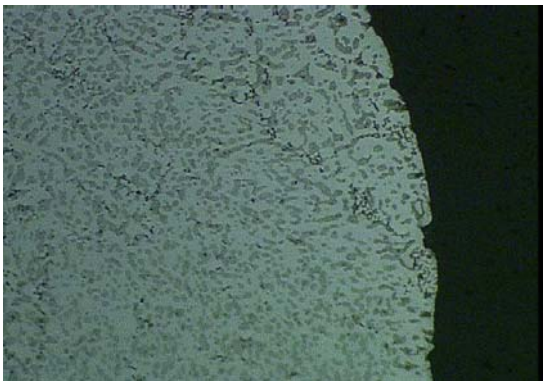
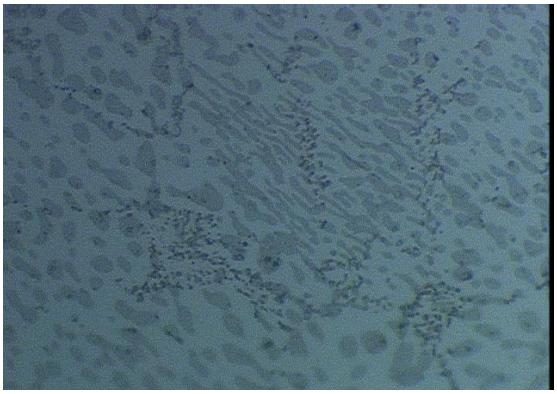
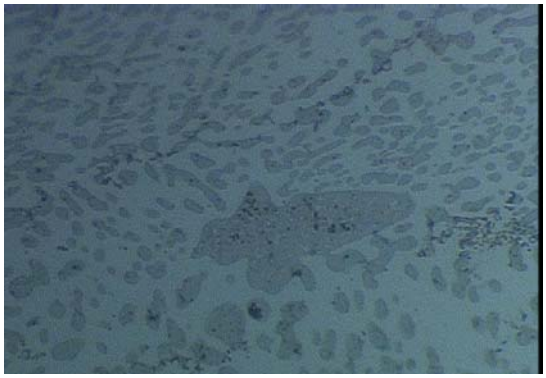


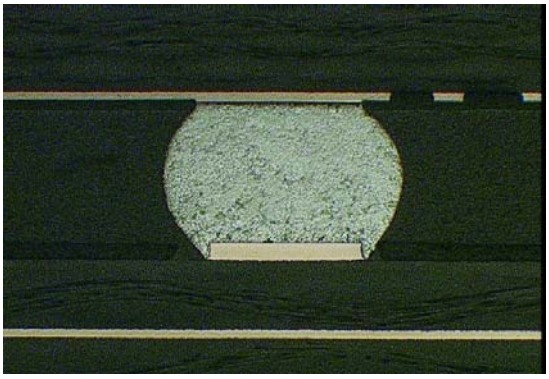
PWB41 - U18- SnPb Solder, SAC Finish @200x



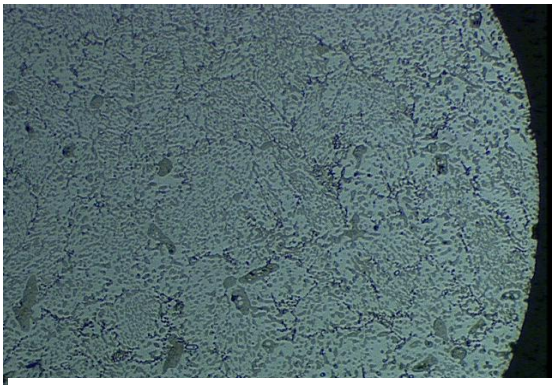
PWB41 - U18- SnPb Solder, SAC Finish @500x



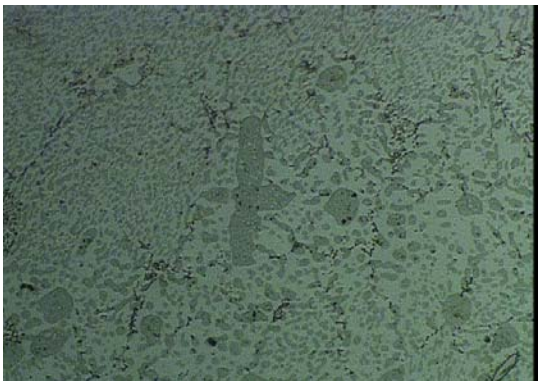
PWB41 - U18- SnPb Solder, SAC Finish @500x



PWB41 - U18- SnPb Solder, SAC Finish @25x



PWB41 - U18- SnPb Solder, SAC Finish @100x



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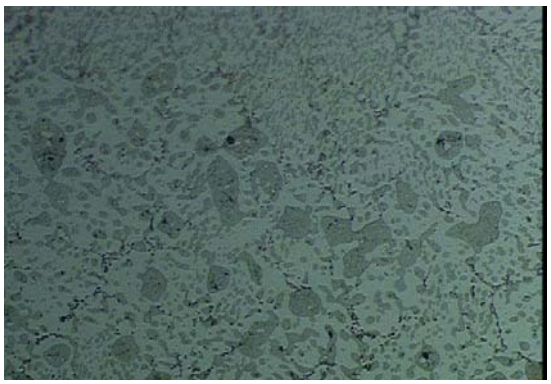
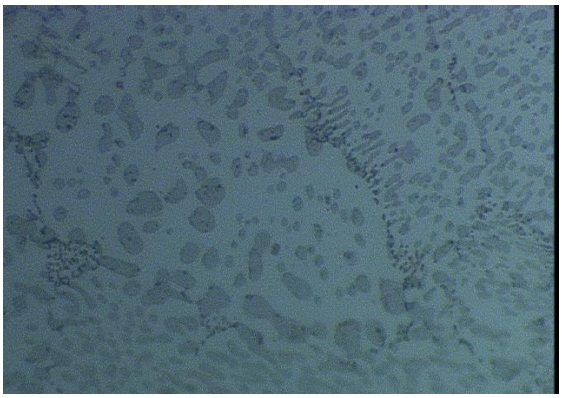
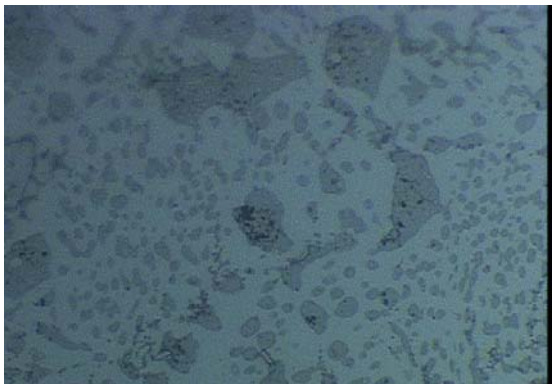


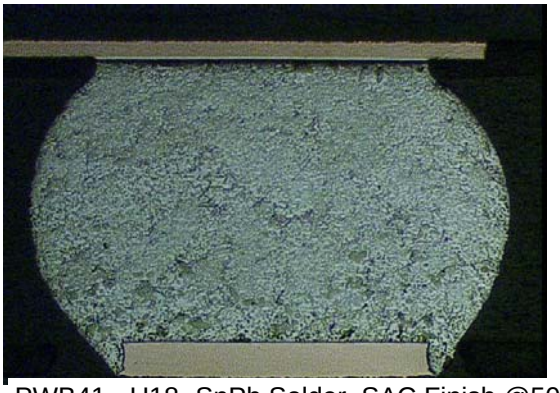
PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @500x



PWB41 - U18- SnPb Solder, SAC Finish @500x



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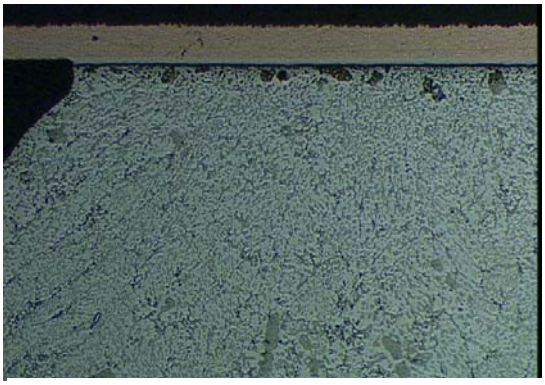
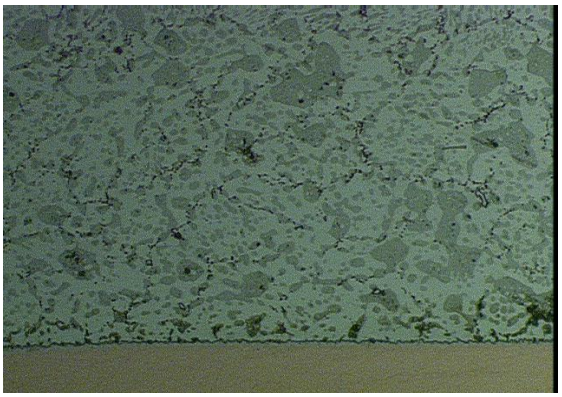


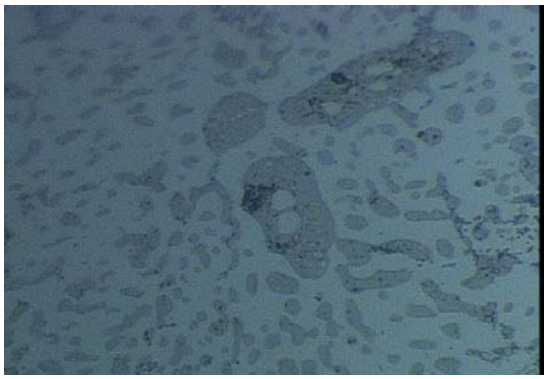
PWB41 - U18- SnPb Solder, SAC Finish @100x



PWB41 - U18- SnPb Solder, SAC Finish @200x

PWB41 - U18- SnPb Solder, SAC Finish @200x

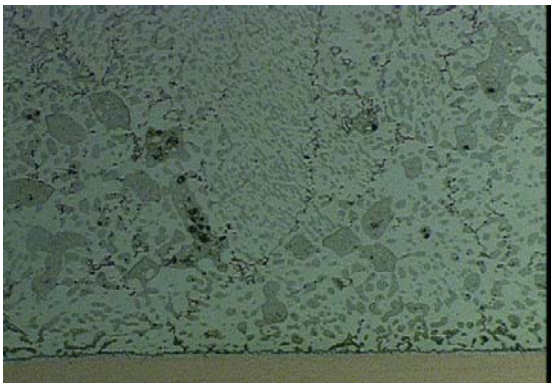
PWB41 - U18- SnPb Solder, SAC Finish @500x



PWB41 - U18- SnPb Solder, SAC Finish @500x

PWB41 - U18- SnPb Solder, SAC Finish @50x

PWB41 - U18- SnPb Solder, SAC Finish @100x



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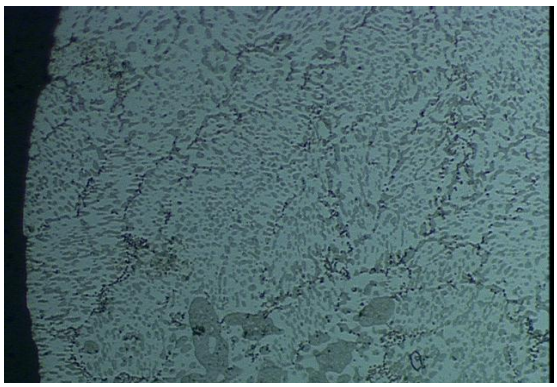

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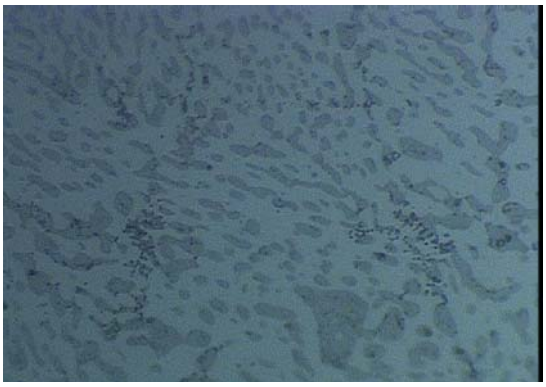

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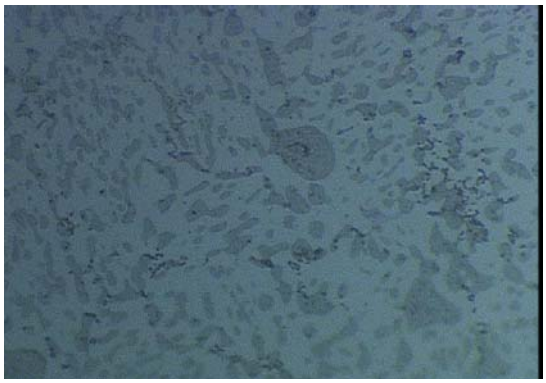
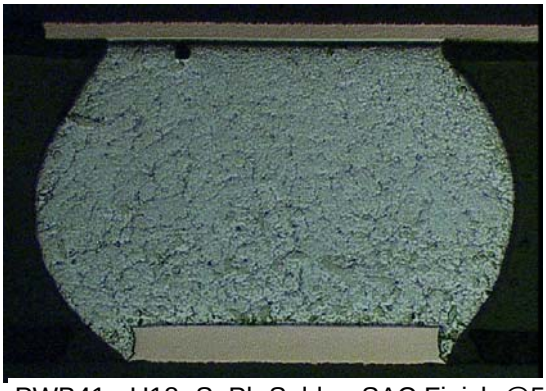
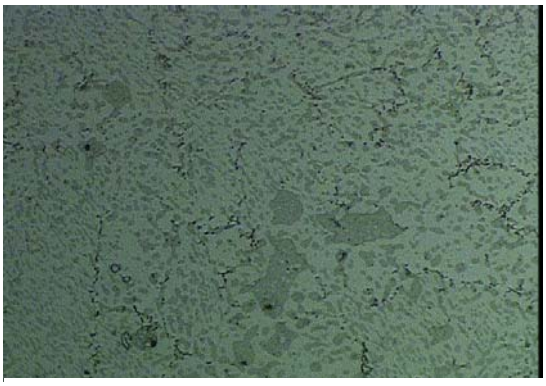


PWB41 - U18- SnPb Solder, SAC Finish @500x

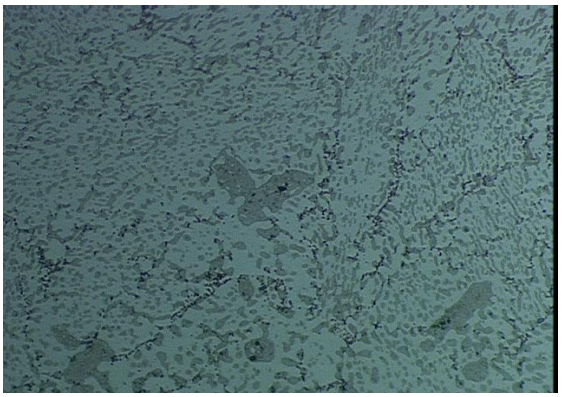


PWB41 - U18- SnPb Solder, SAC Finish @50x

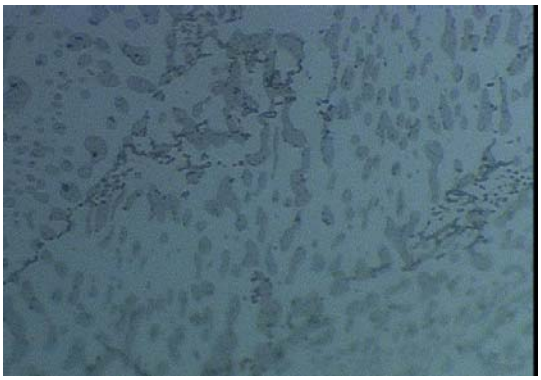
PWB41 - U18- SnPb Solder, SAC Finish @100x



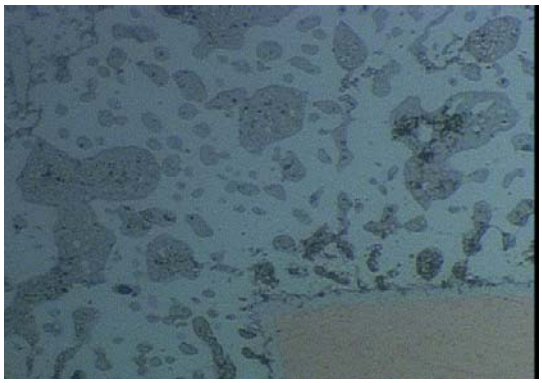
PWB41 - U18- SnPb Solder, SAC Finish @200x



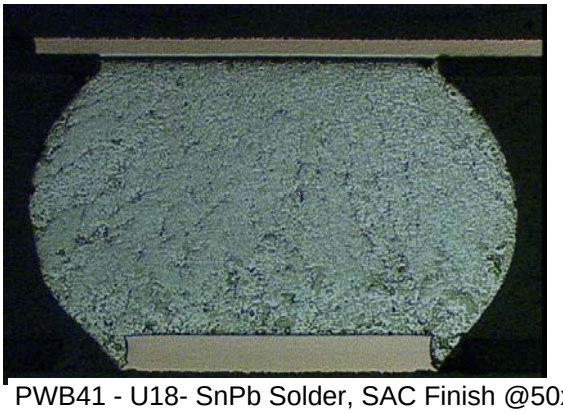
PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @500x

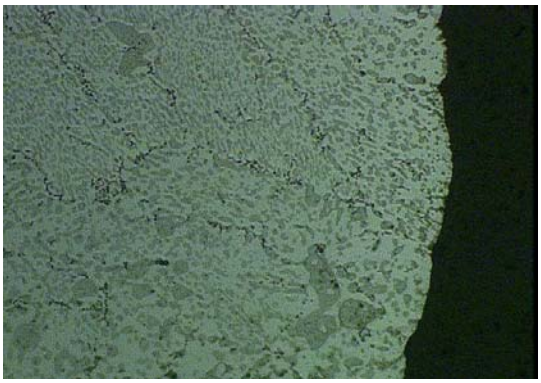


PWB41 - U18- SnPb Solder, SAC Finish @500x

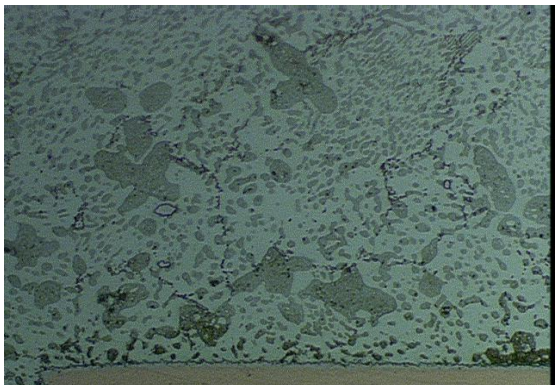


PWB41 - U18- SnPb Solder, SAC Finish @50x

PWB41 - U18- SnPb Solder, SAC Finish @100x



PWB41 - U18- SnPb Solder, SAC Finish @200x



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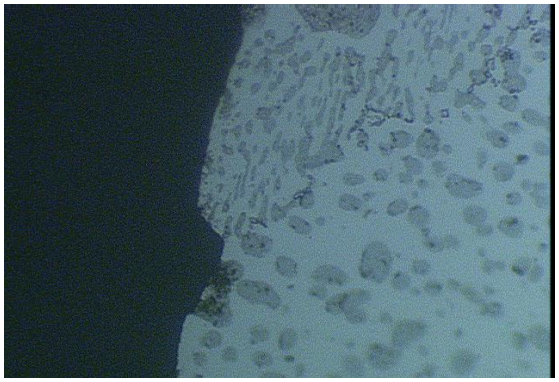

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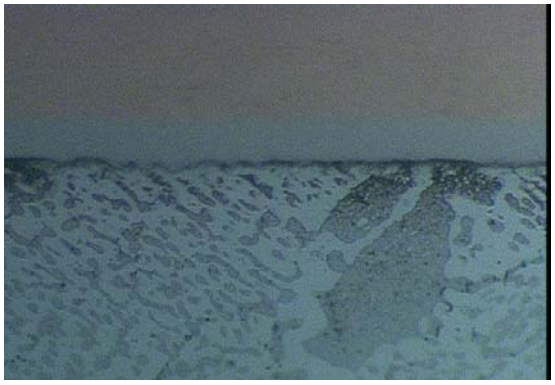

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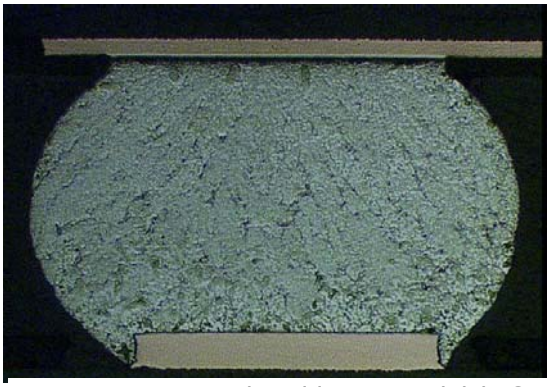
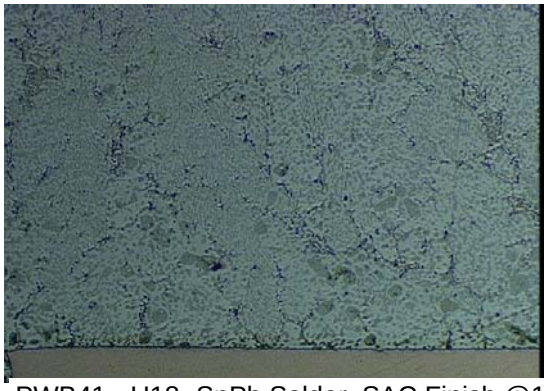
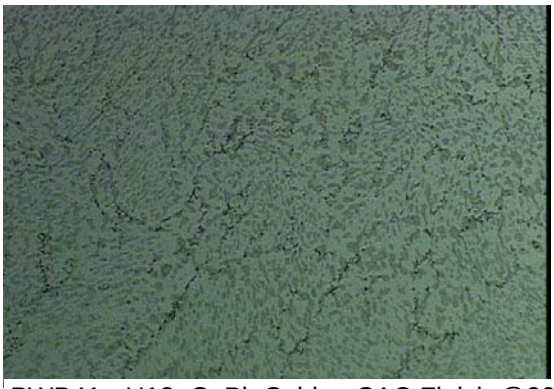


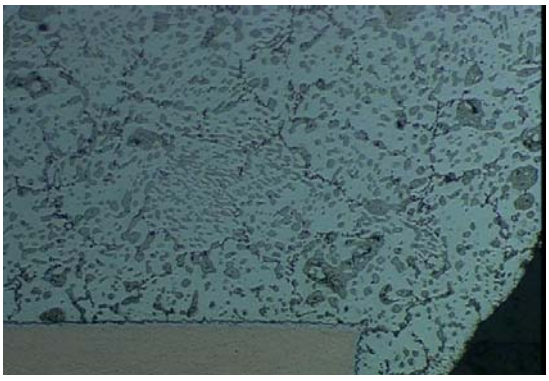
PWB41 - U18- SnPb Solder, SAC Finish @50x



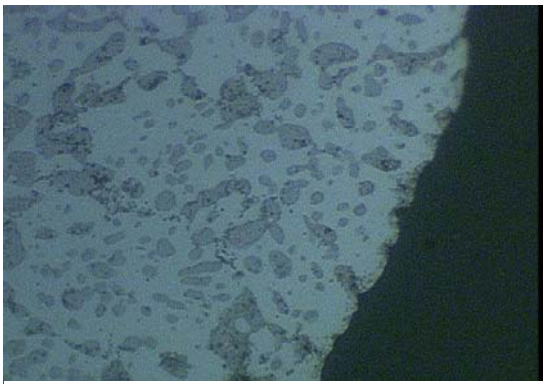
PWB41 - U18- SnPb Solder, SAC Finish @100x



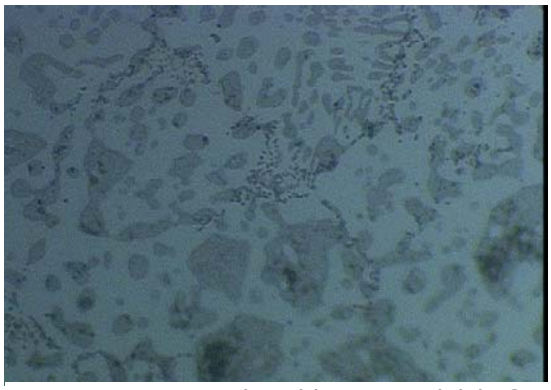
PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @200x

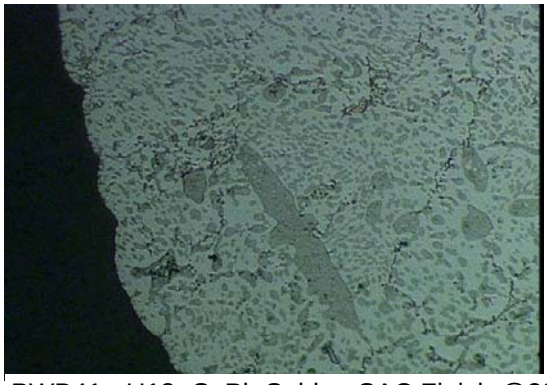


PWB41 - U18- SnPb Solder, SAC Finish @500x



PWB41 - U18- SnPb Solder, SAC Finish @500x

PWB41 - U18- SnPb Solder, SAC Finish @200x



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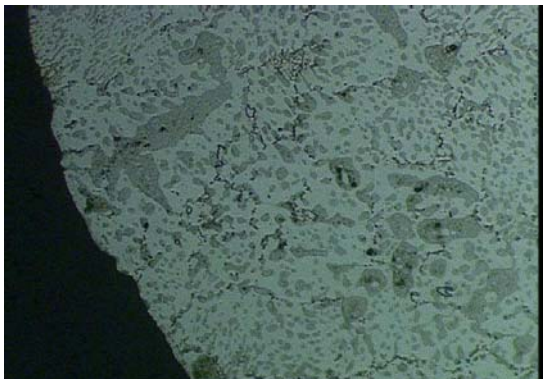
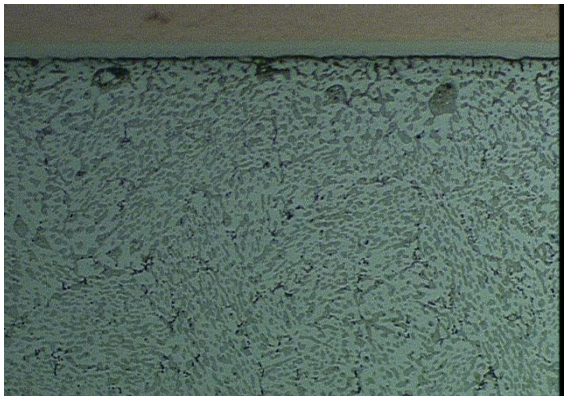


PWB41 - U18- SnPb Solder, SAC Finish @200x

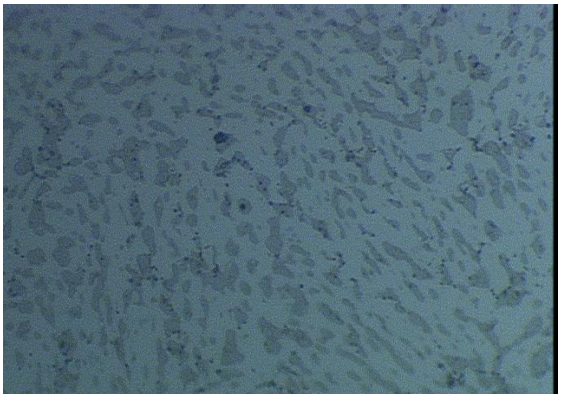
PWB41 - U18- SnPb Solder, SAC Finish @500x

PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @200x

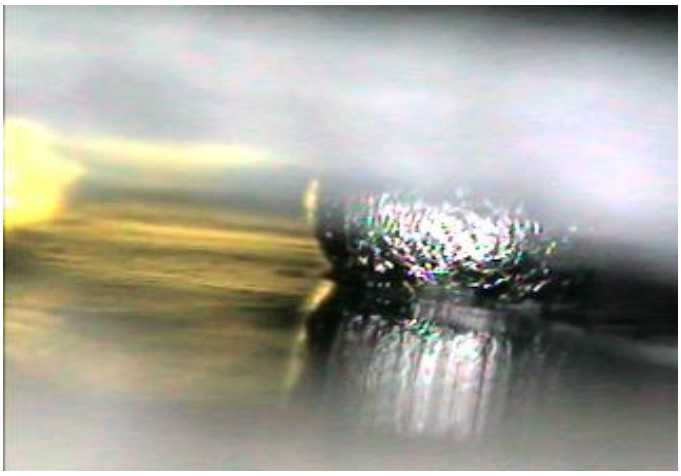
PWB41 - U18- SnPb Solder, SAC Finish @200x



PWB41 - U18- SnPb Solder, SAC Finish @500x

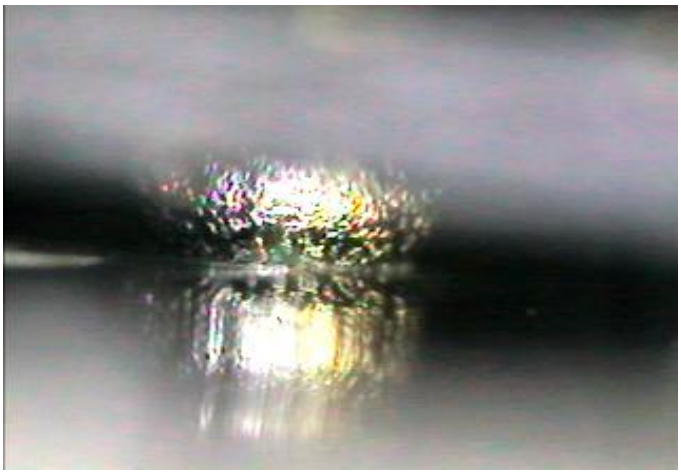
Part # U18

BGA SCOPE

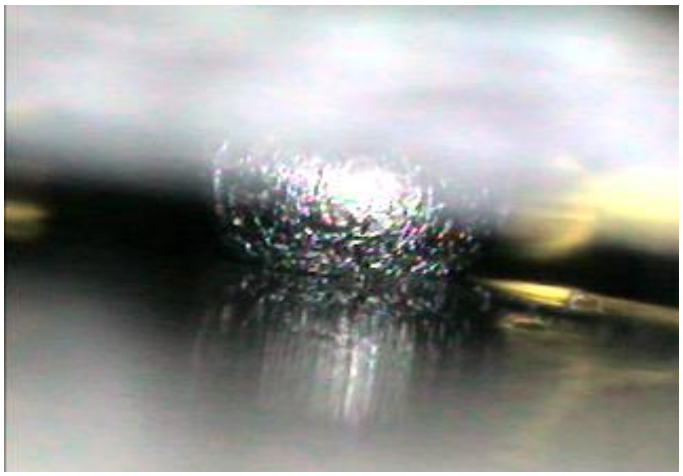


PWB41 - U18- SnPb Solder, SAC Finish, BGA Scope

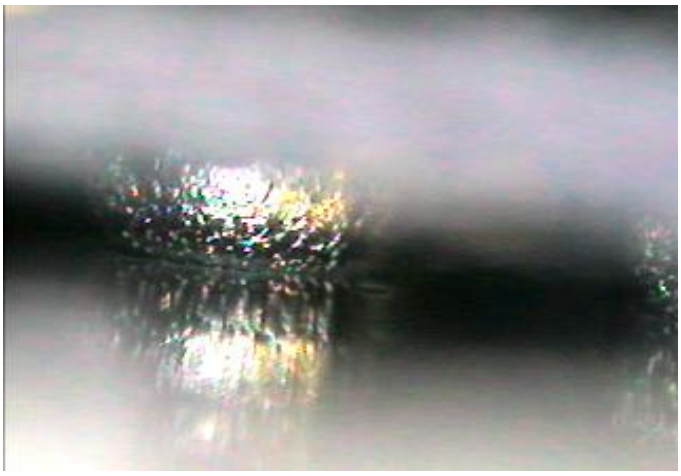
PWB41 - U18- SnPb Solder, SAC Finish, BGA Scope



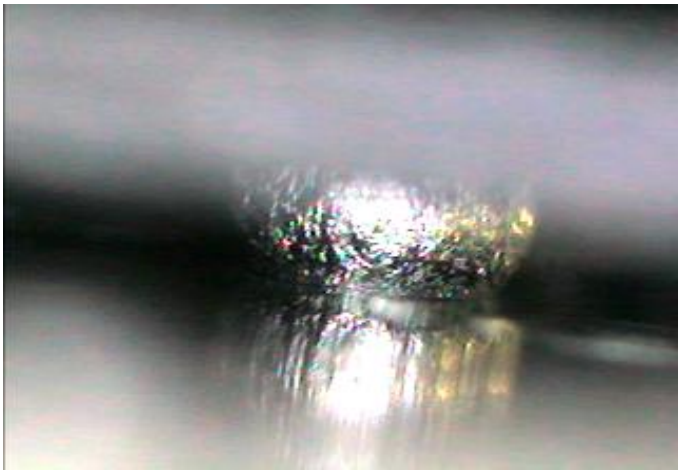
PWB41 - U18- SnPb Solder, SAC Finish, BGA Scope



PWB41 - U18- SnPb Solder, SAC Finish, BGA Scope

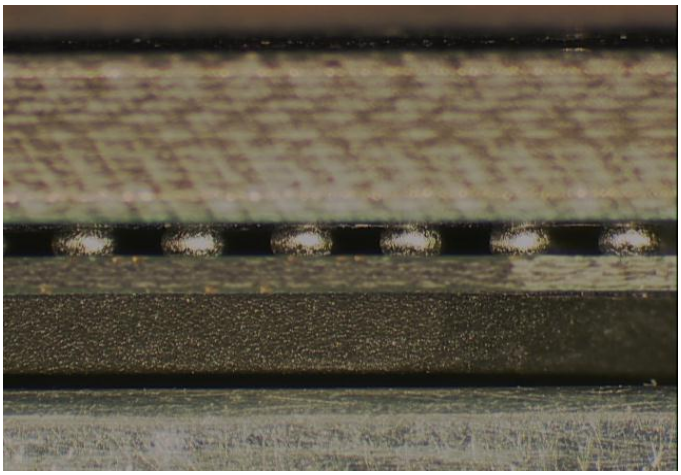


PWB41 - U18- SnPb Solder, SAC Finish, BGA Scope

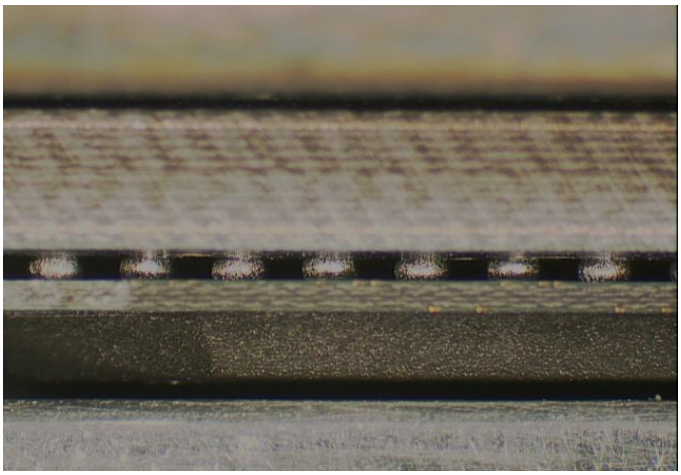


PWB41 - U18- SnPb Solder, SAC Finish, BGA Scope

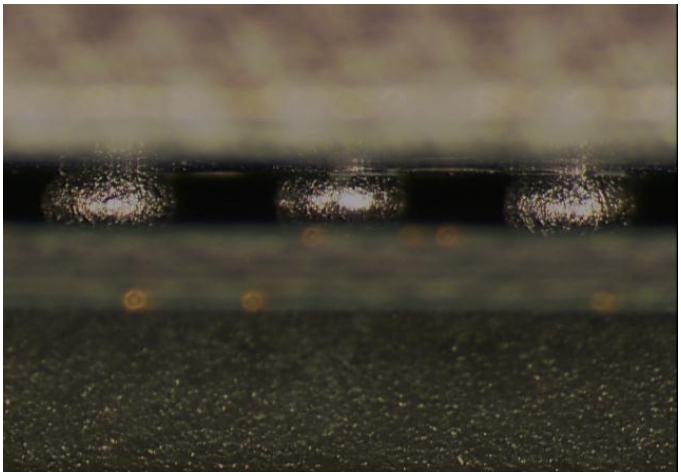
Microscope



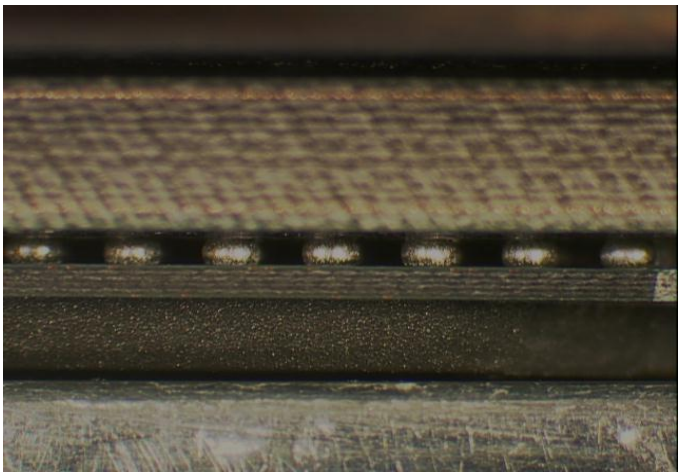
PWB41 - U18- SnPb Solder, SAC Finish, Microscope



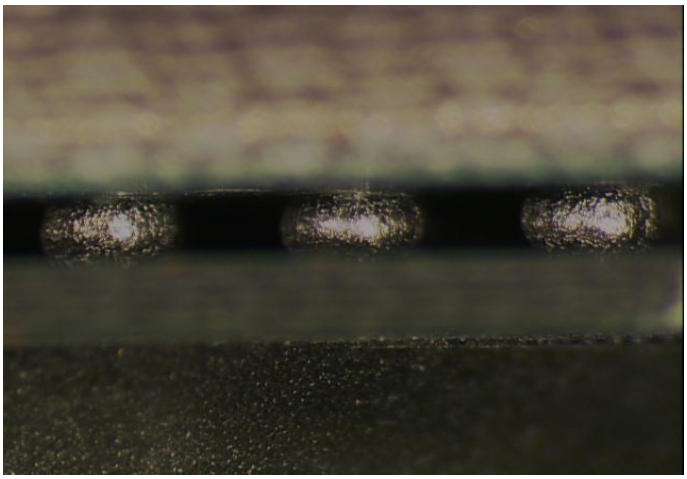
PWB41 - U18- SnPb Solder, SAC Finish, Microscope



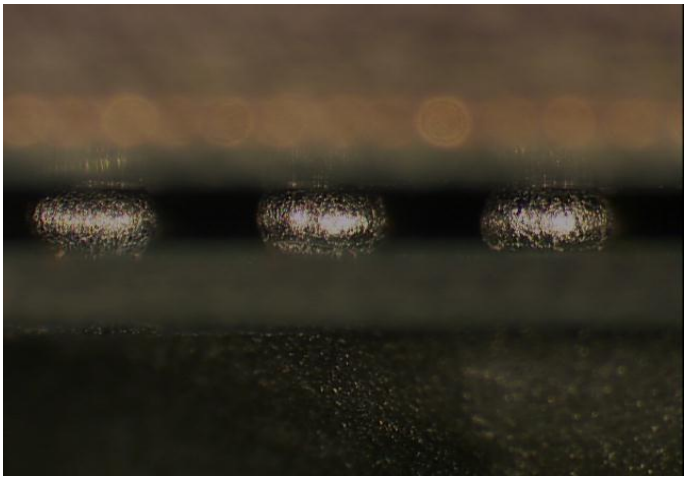
PWB41 - U18- SnPb Solder, SAC Finish, Microscope



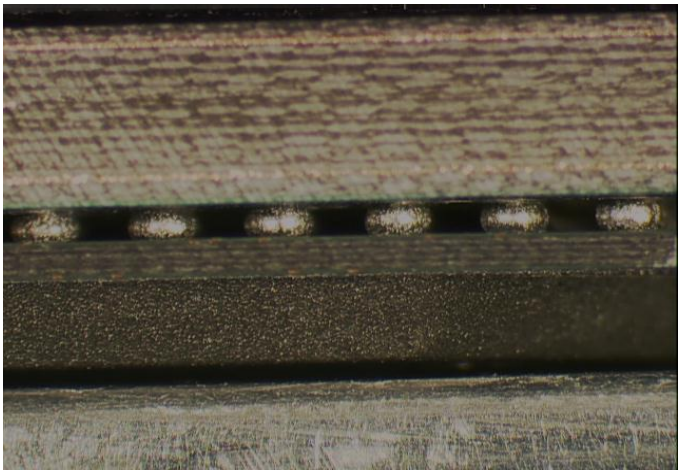
PWB41 - U18- SnPb Solder, SAC Finish, Microscope



PWB41 - U18- SnPb Solder, SAC Finish, Microscope

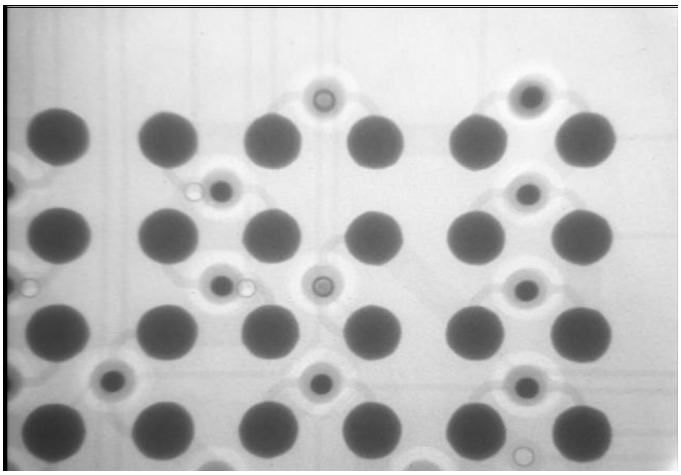


PWB41 - U18- SnPb Solder, SAC Finish, Microscope

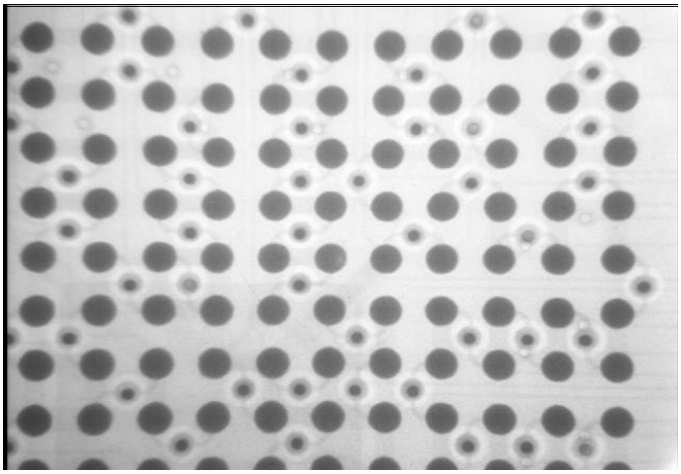


PWB41 - U18- SnPb Solder, SAC Finish, Microscope

X-Ray



PWB41 - U18- SnPb Solder, SAC Finish, X-Ray

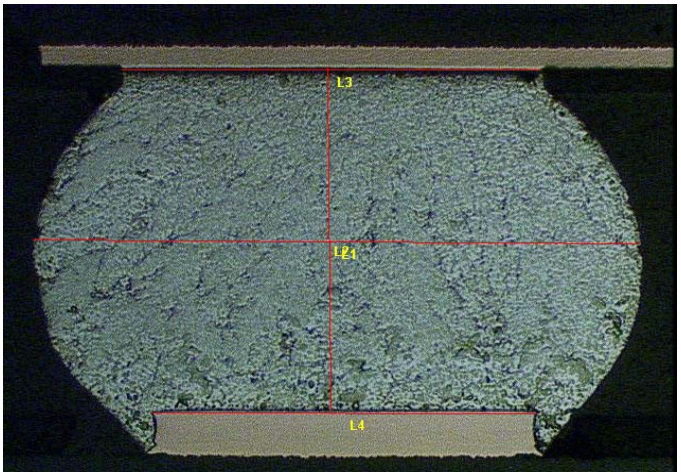


PWB41 - U18- SnPb Solder, SAC Finish, X-Ray

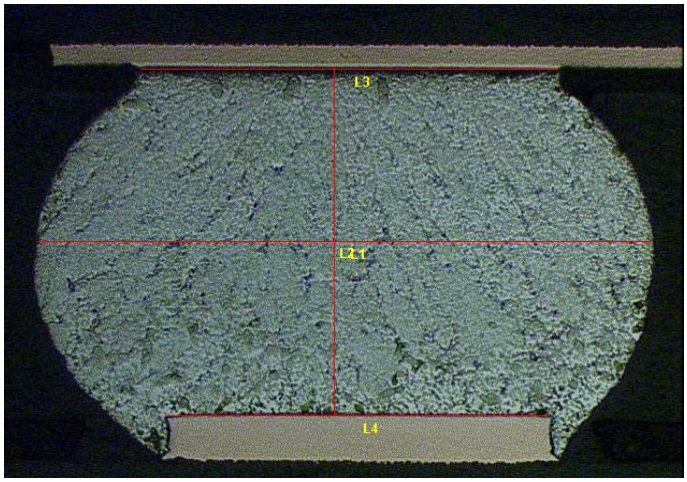
Part # U18

Category	Ball Width (in.)	Height (in.)	Top Contact (in.)	Bottom Contact (in.)
Meas 1	0.0331221	0.0204053	0.0228901	0.0210405
Meas 2	0.0331791	0.0201734	0.0224855	0.0206936
Meas 3	0.0326011	0.0206358	0.0224277	0.020867
Meas 4	0.032659	0.0215613	0.0222543	0.0209827
Meas 5	0.0329481	0.0209248	0.0228323	0.0210982
AVG	0.0329019	0.0207401	0.0225780	0.0209364

**Note : Six measurements were taken from different solder balls
**Note : The pictures shown are examples of a few of these measurements



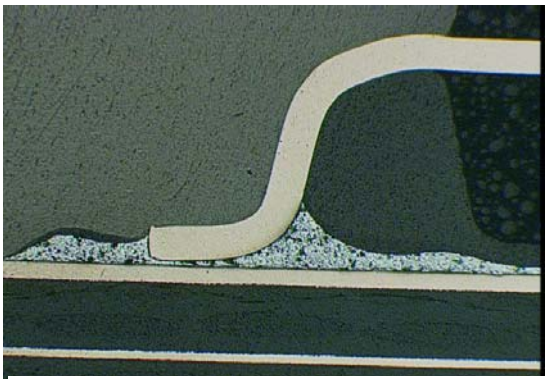
PWB41 - U18- Solder Ball - Measurement 1



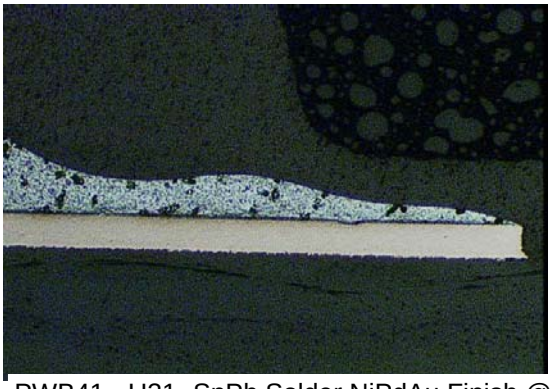
PWB41 - U18- Solder Ball - Measurement 5

U31

Left Side



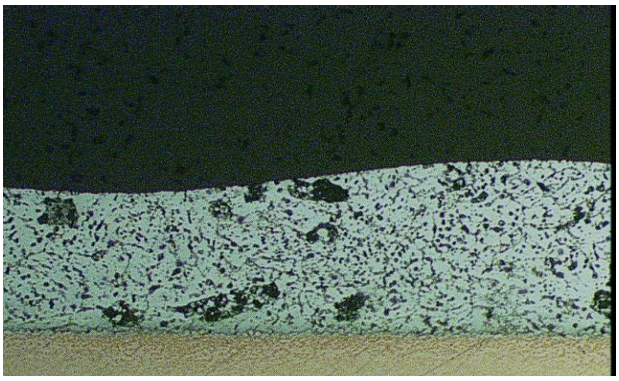
PWB41 - U31- SnPb Solder,NiPdAu Finish @25x



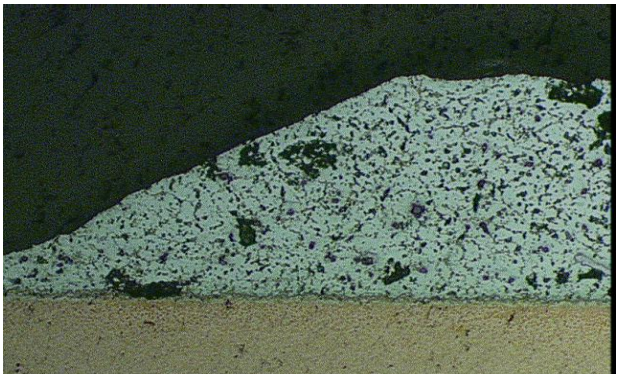
PWB41 - U31- SnPb Solder,NiPdAu Finish @50x

PWB41 - U31- SnPb Solder,NiPdAu Finish @50x

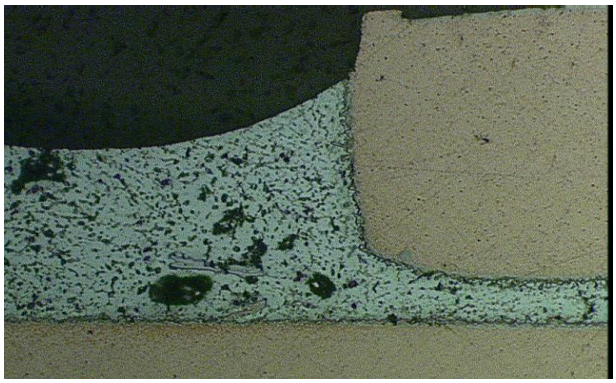
Left Side



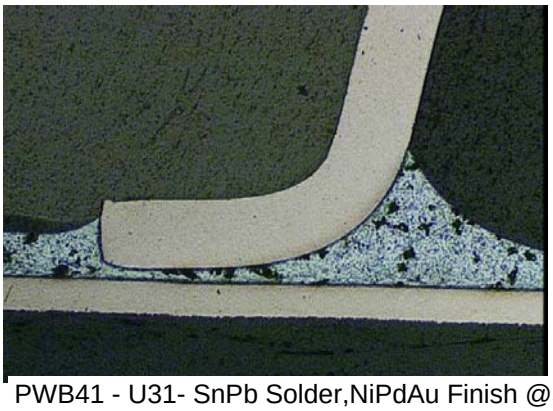
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



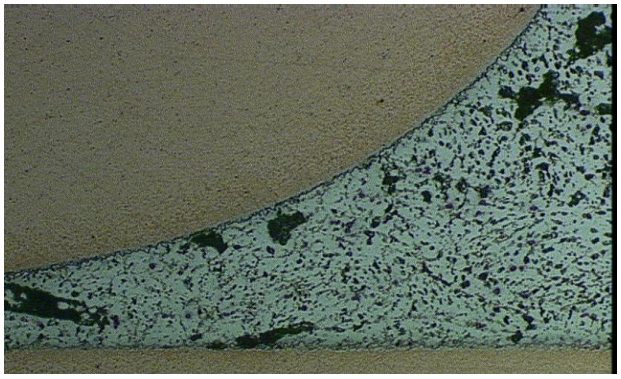
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



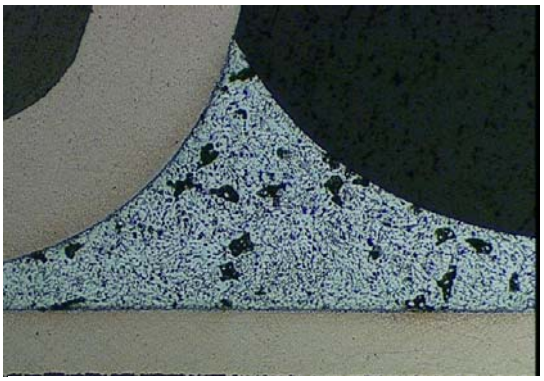
PWB41 - U31- SnPb Solder,NiPdAu Finish @50x



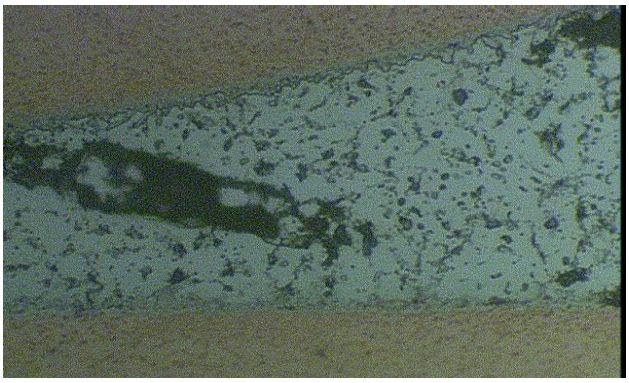
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x

PWB41 - U31- SnPb Solder,NiPdAu Finish @100x

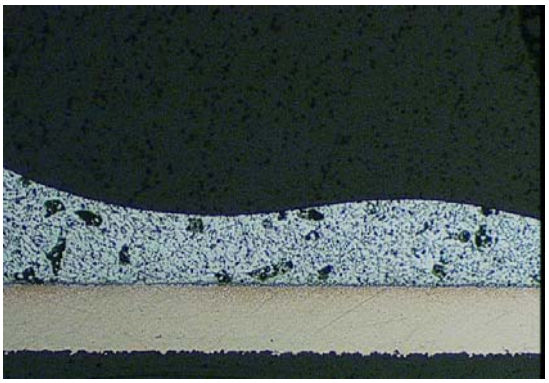
PWB41 - U31- SnPb Solder,NiPdAu Finish @500x



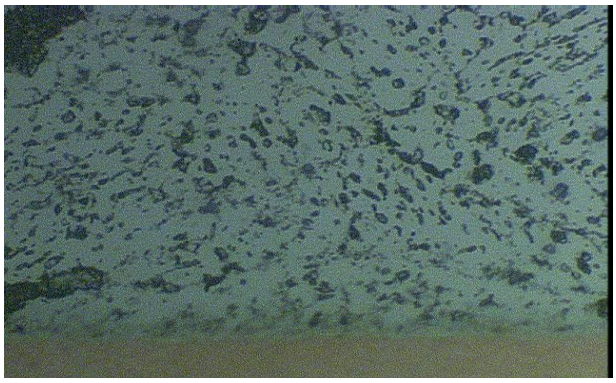
PWB41 - U31- SnPb Solder,NiPdAu Finish @100x



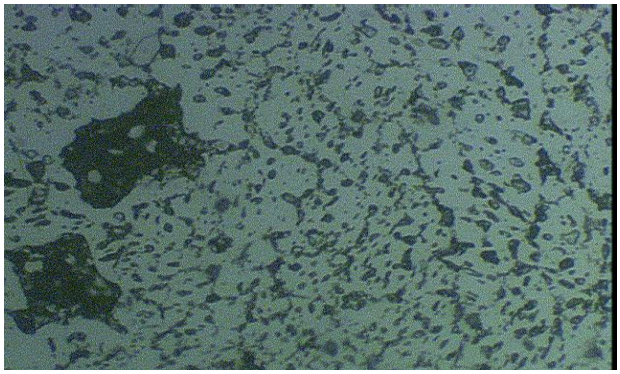
PWB41 - U31- SnPb Solder,NiPdAu Finish @500x



PWB41 - U31- SnPb Solder,NiPdAu Finish @100x

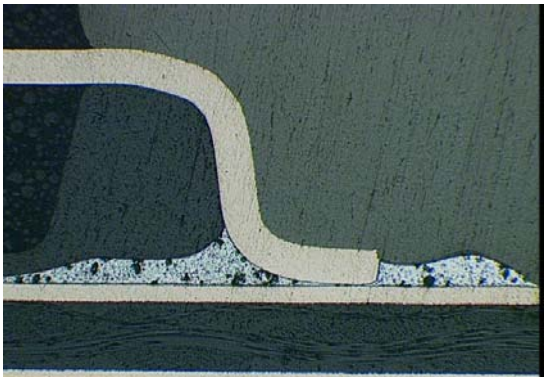


PWB41 - U31- SnPb Solder,NiPdAu Finish @500x

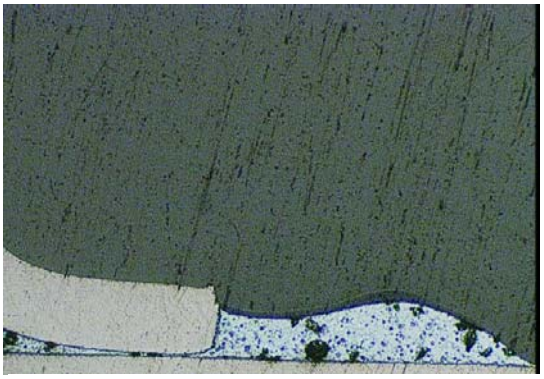


PWB41 - U31- SnPb Solder,NiPdAu Finish @500x

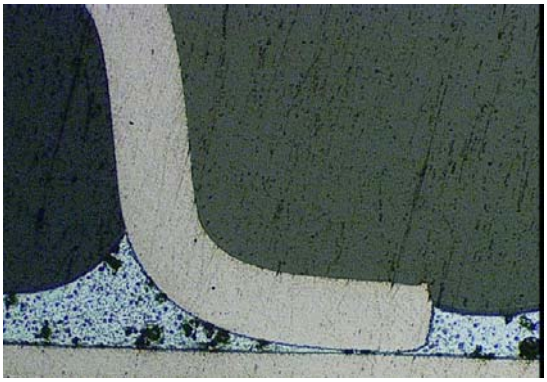
Right Side



PWB41 - U31- SnPb Solder,NiPdAu Finish @25x

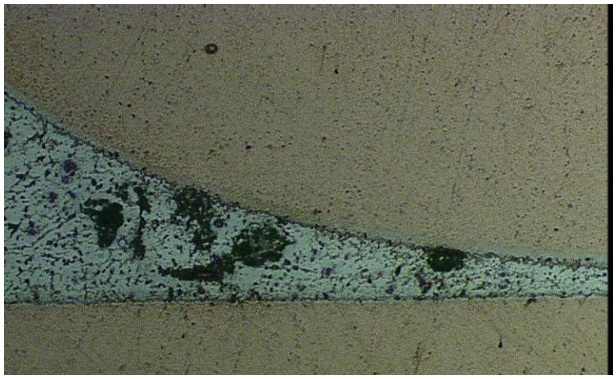


PWB41 - U31- SnPb Solder,NiPdAu Finish @50x

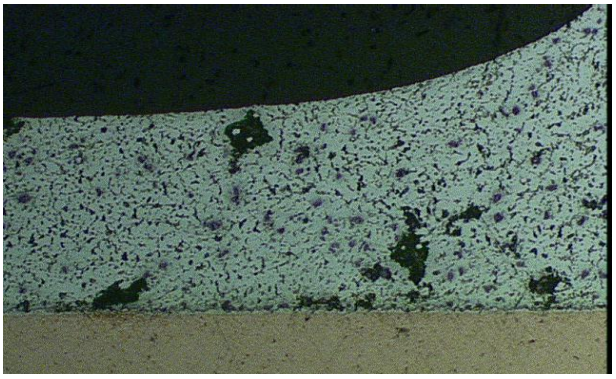


PWB41 - U31- SnPb Solder,NiPdAu Finish @50x

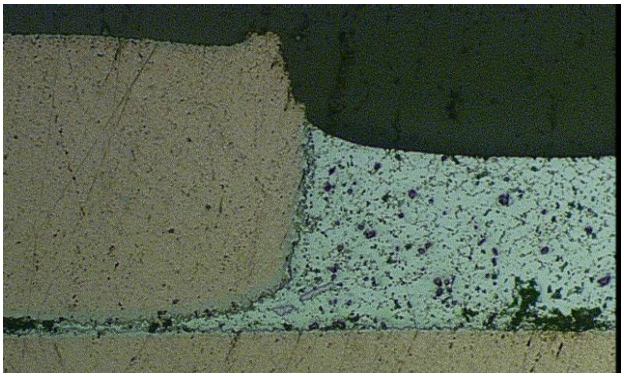
Right Side



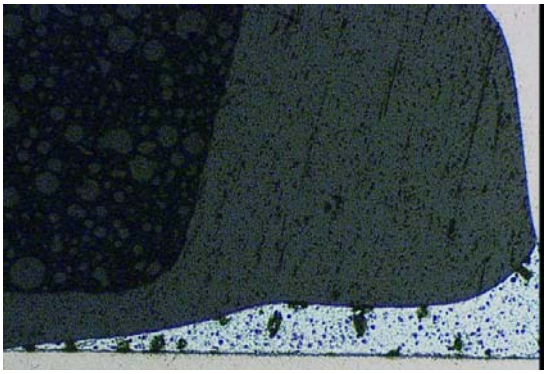
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



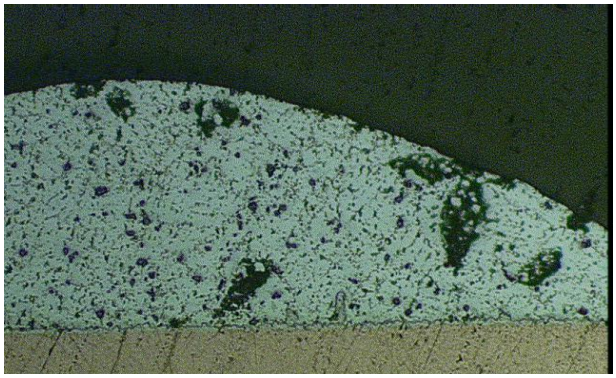
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



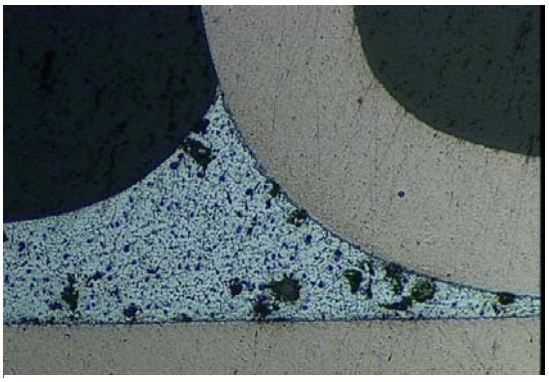
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



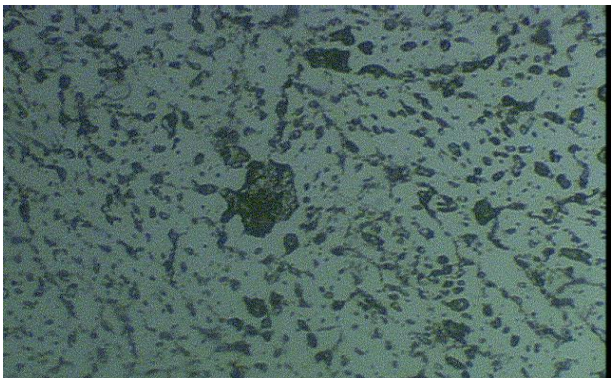
PWB41 - U31- SnPb Solder,NiPdAu Finish @50x



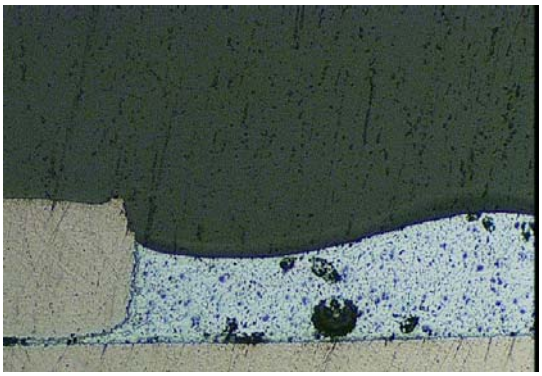
PWB41 - U31- SnPb Solder,NiPdAu Finish @200x



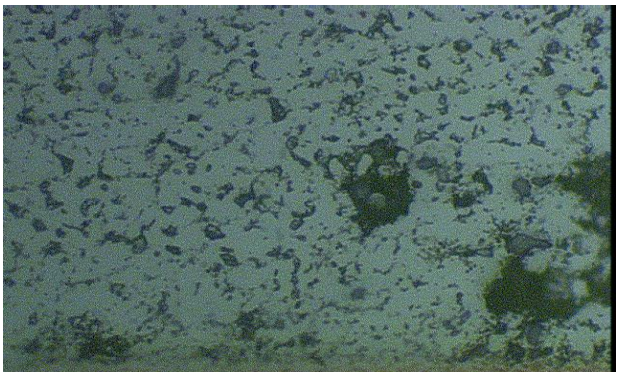
PWB41 - U31- SnPb Solder,NiPdAu Finish @100x



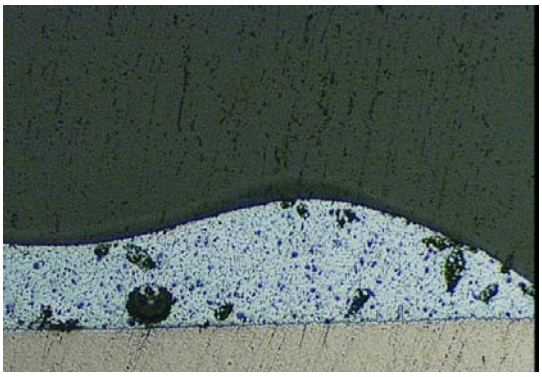
PWB41 - U31- SnPb Solder,NiPdAu Finish @500x



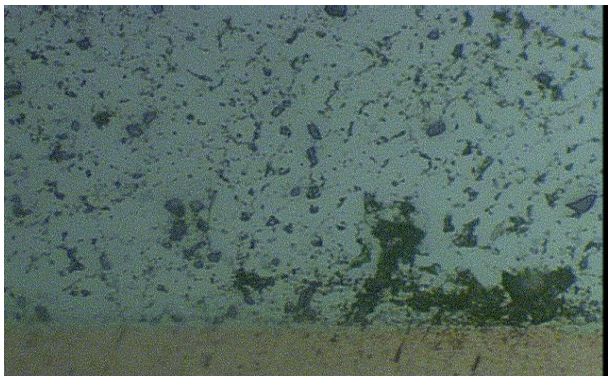
PWB41 - U31- SnPb Solder,NiPdAu Finish @100x



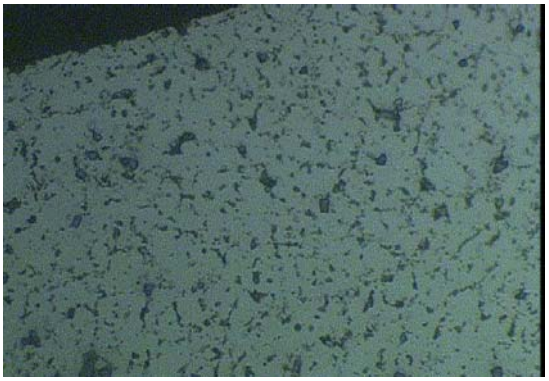
PWB41 - U31- SnPb Solder,NiPdAu Finish @500x



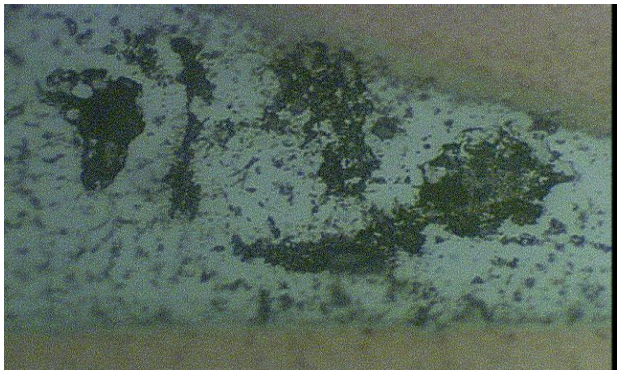
PWB41 - U31- SnPb Solder,NiPdAu Finish @100x



PWB41 - U31- SnPb Solder,NiPdAu Finish @500x



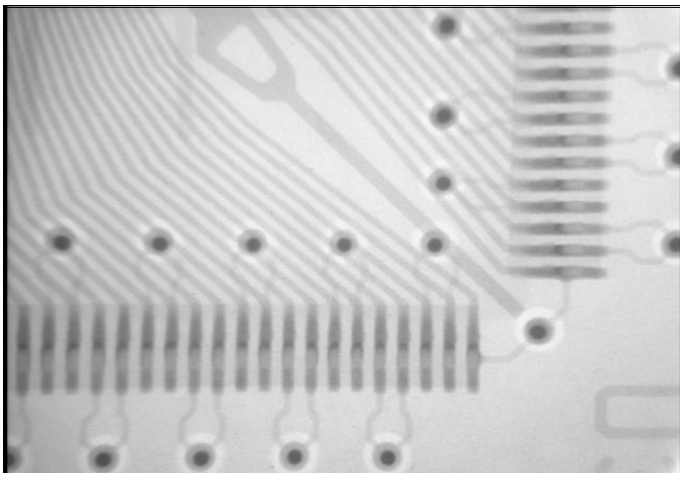
PWB41 - U31- SnPb Solder,NiPdAu Finish @500x



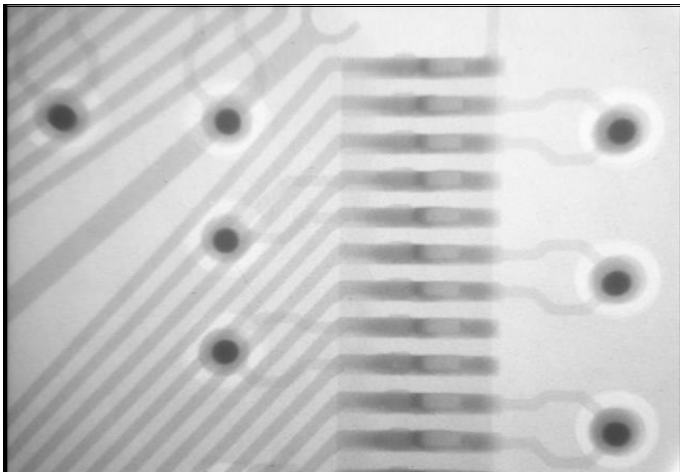
PWB41 - U31- SnPb Solder,NiPdAu Finish @500x

Part # U31

X-Ray

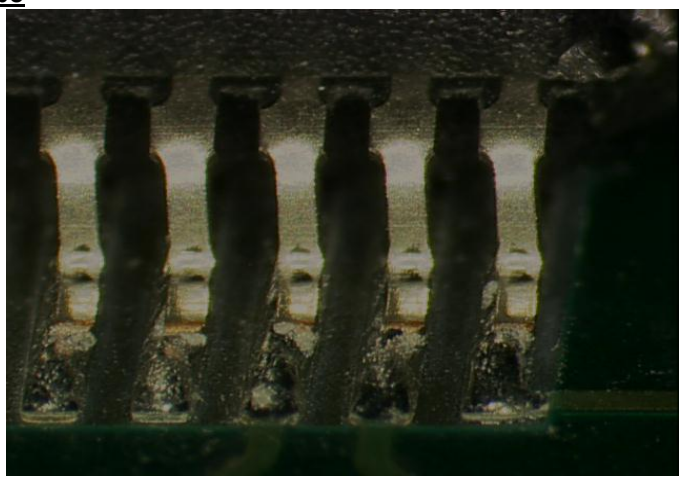


PWB41 - U31- SnPb Solder, NiPdAu Finish, X-Ray

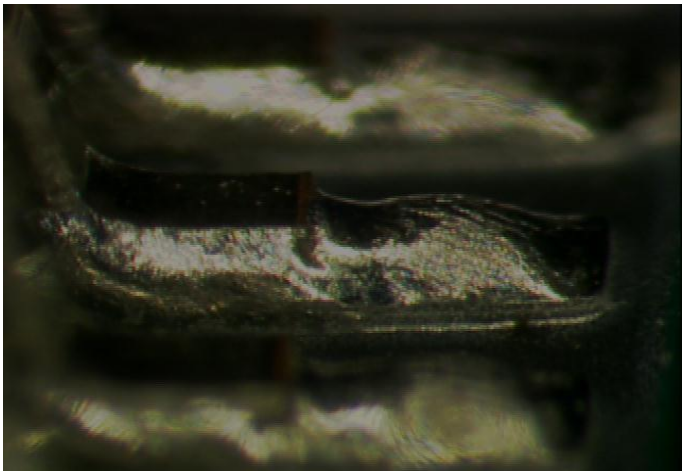


PWB41 - U31- SnPb Solder, NiPdAu Finish, X-Ray

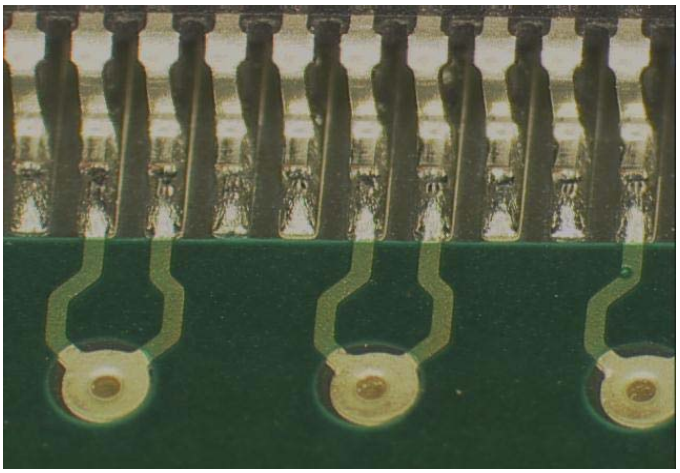
Microscope



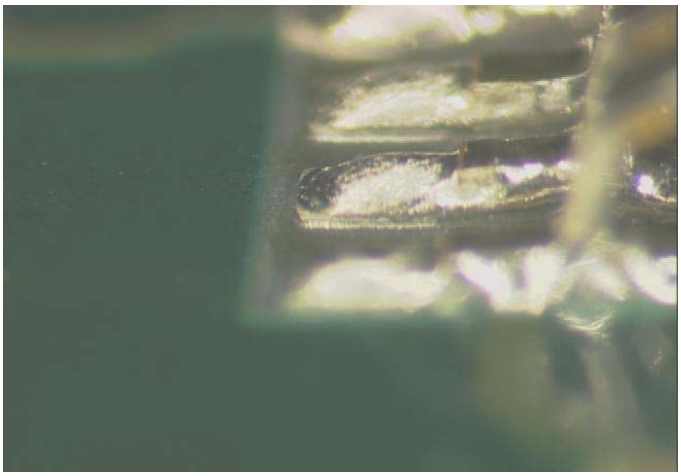
PWB41 - U31- SnPb Solder, NiPdAu Finish @17x



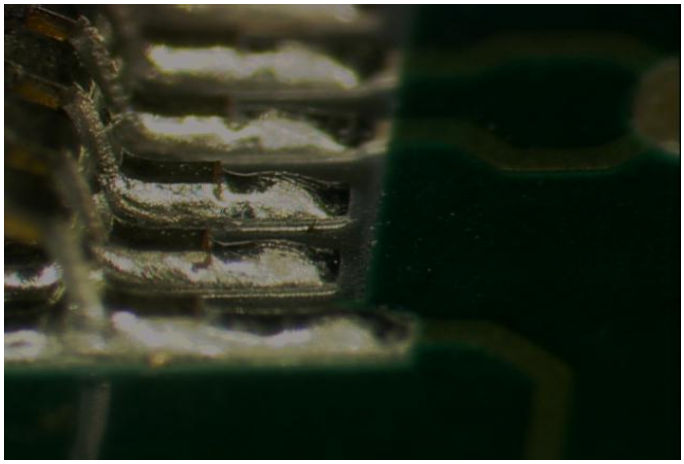
PWB41 - U31- SnPb Solder, NiPdAu Finish @55x



PWB41 - U31- SnPb Solder, NiPdAu Finish @13x



PWB41 - U31- SnPb Solder, NiPdAu Finish @30x



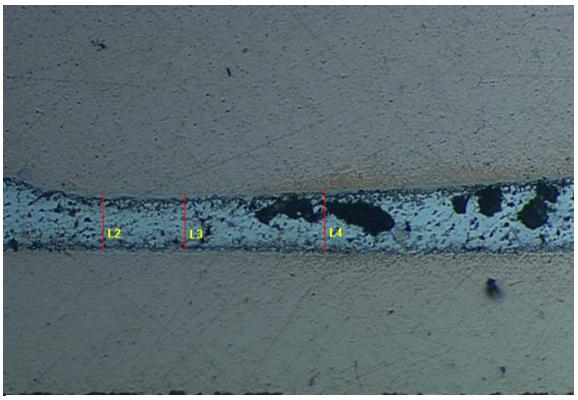
PWB41 - U31- SnPb Solder, NiPdAu Finish @25x

Part # U31

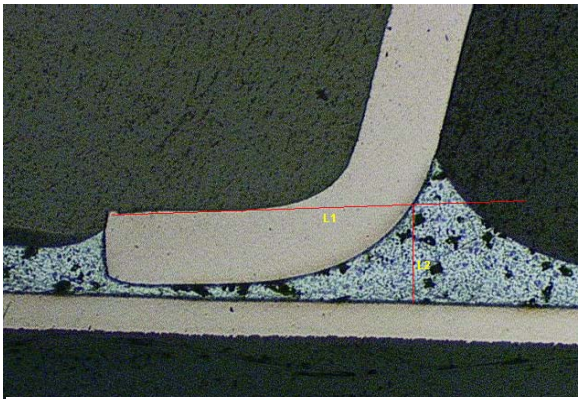
Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.000971
Meas 2	0.000971
Meas 3	0.0010724
Avg	0.0010048

Min. Required Heel Fillet (in.)
0.0068208



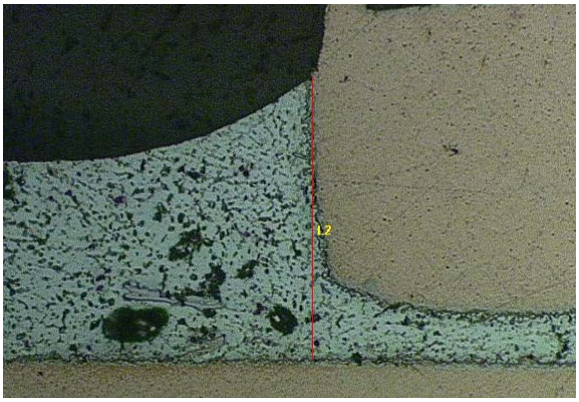
PWB41 - U31- Min. Lead/Pad Distance



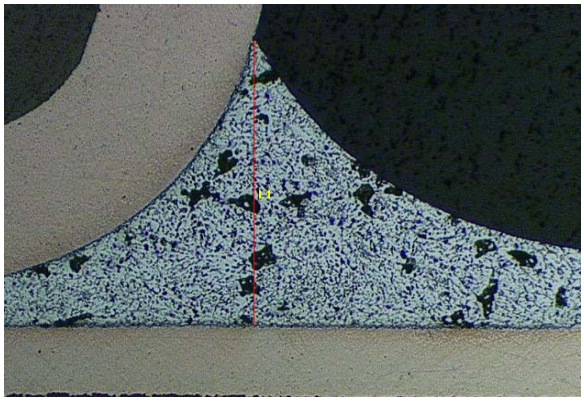
WB41 - U31- Min. Required Heel Fillet

Toe (in.)
0.0045362

Heel Fillet (in.)
0.0100578



PWB41 - U31- Toe

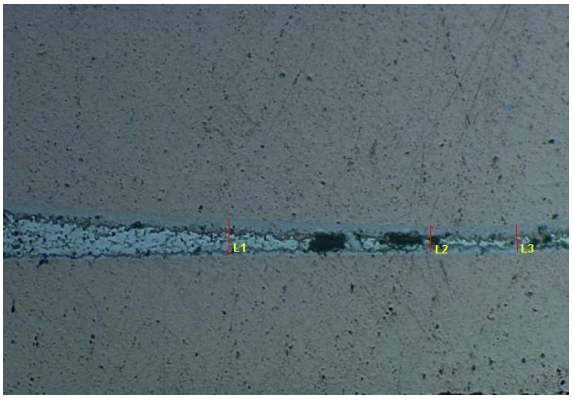


PWB41 - U31- Heel Fillet

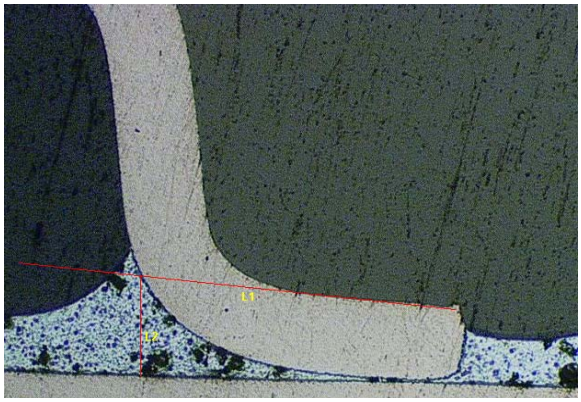
Right

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0006376
Meas 2	0.0004782
Meas 3	0.0004784
Avg	0.0005314

Min. Required Heel Fillet (in.)
0.0068786



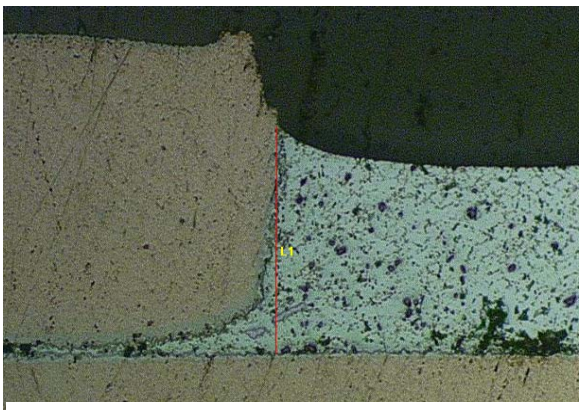
PWB41 - U31- Min. Lead/Pad Distance



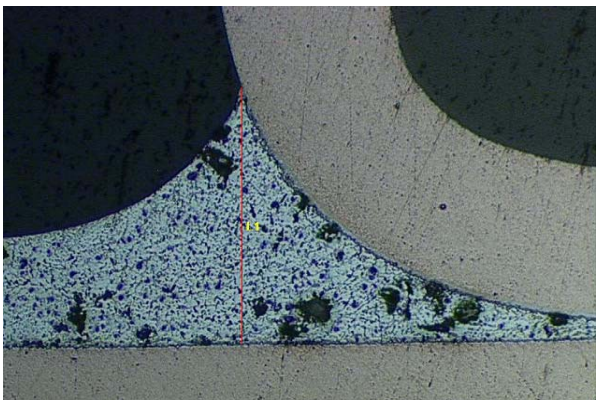
PWB41 - U31- Min. Required Heel Fillet

Toe (in.)
0.0038406

Heel Fillet (in.)
0.0088728



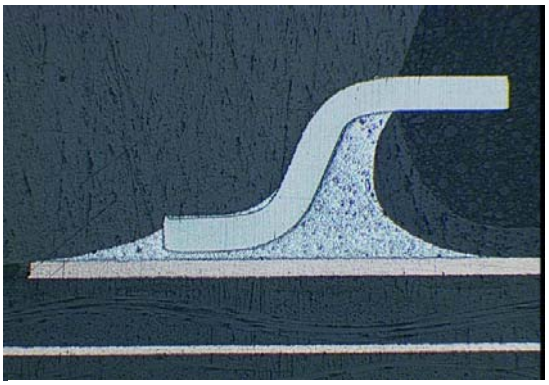
PWB41 - U31- Toe



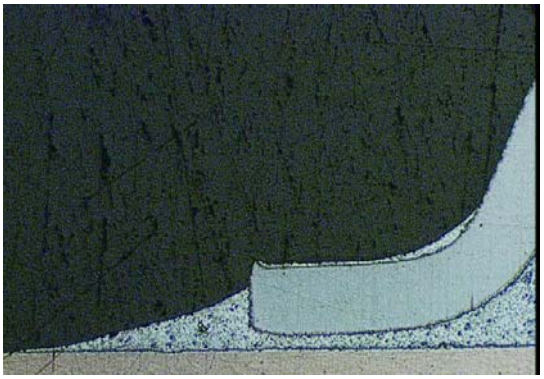
PWB41 - U31- Heel Fillet

U39

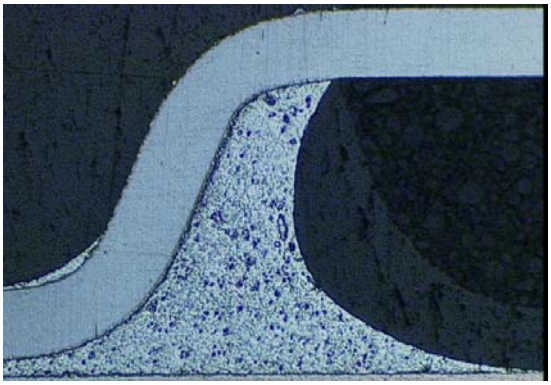
Left Side



PWB41 - U39- SnPb Solder, SnCu Finish @25x

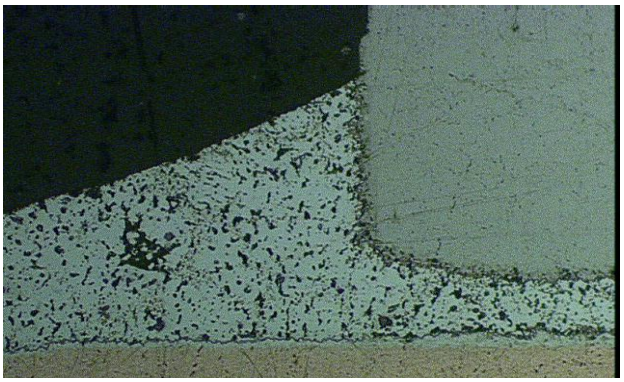


PWB41 - U39- SnPb Solder, SnCu Finish @50x



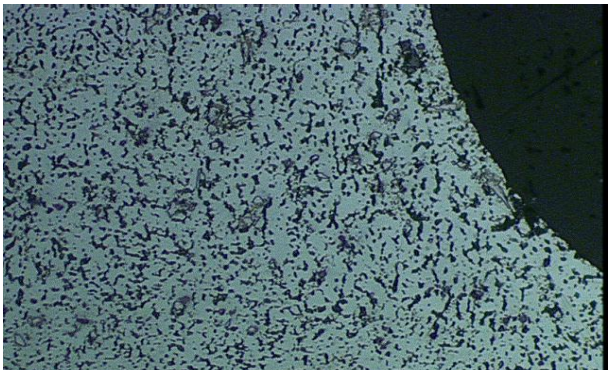
PWB41 - U39- SnPb Solder, SnCu Finish @50x

Left Side

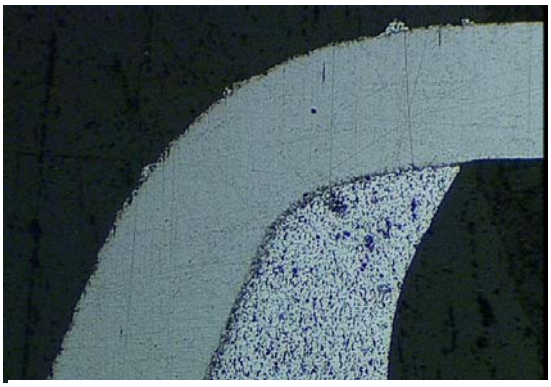


PWB41 - U39- SnPb Solder, SnCu Finish @200x

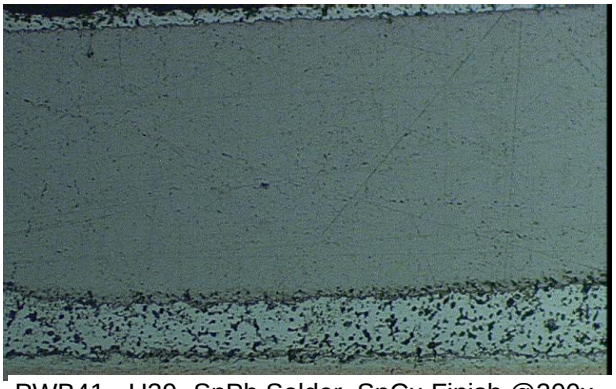
PWB41 - U39- SnPb Solder, SnCu Finish @200x



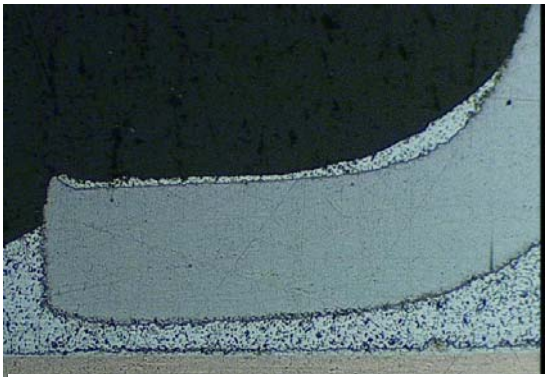
PWB41 - U39- SnPb Solder, SnCu Finish @200x



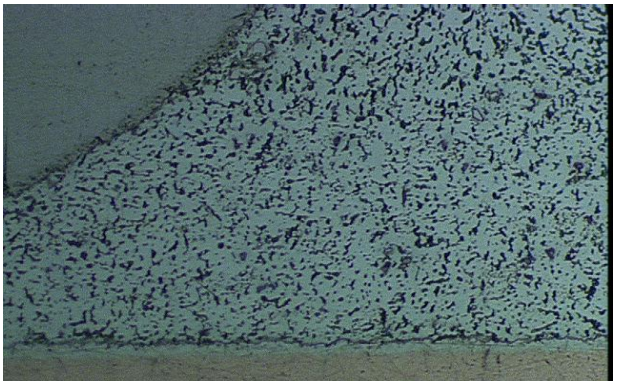
PWB41 - U39- SnPb Solder, SnCu Finish @100x



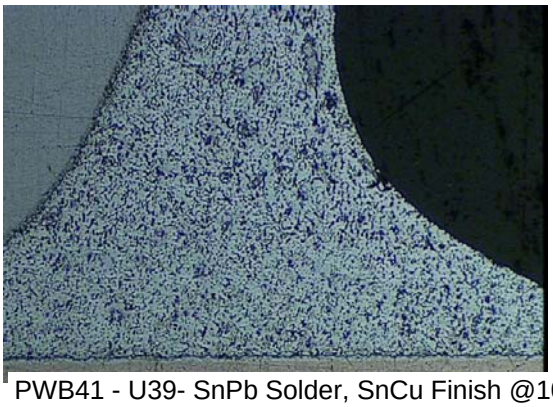
PWB41 - U39- SnPb Solder, SnCu Finish @200x



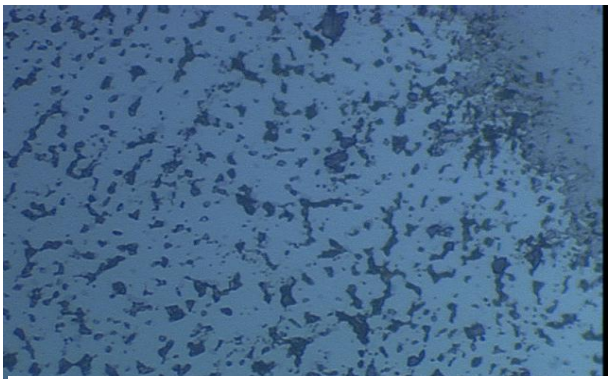
PWB41 - U39- SnPb Solder, SnCu Finish @100x



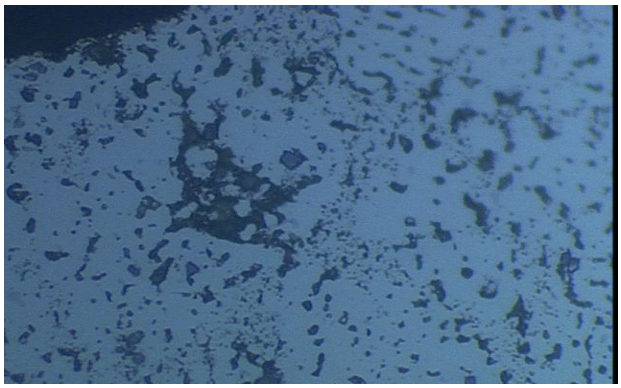
PWB41 - U39- SnPb Solder, SnCu Finish @200x



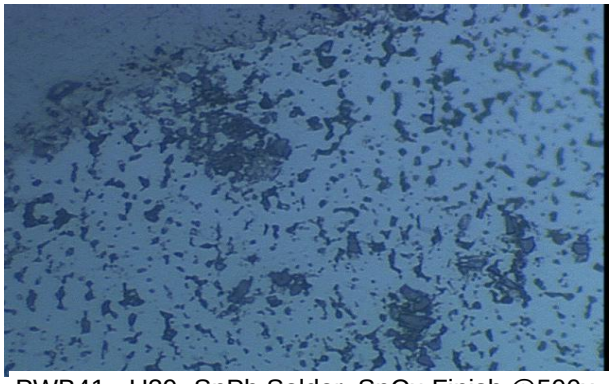
PWB41 - U39- SnPb Solder, SnCu Finish @100x



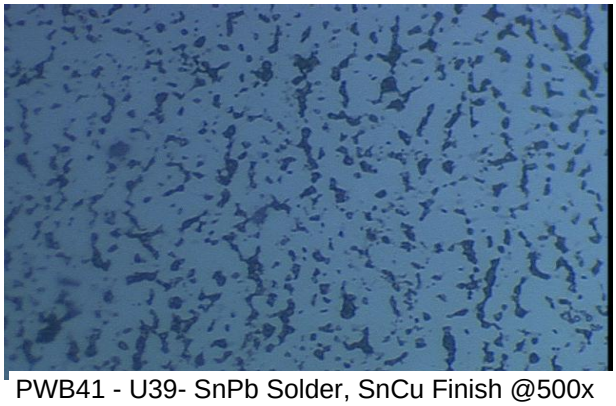
PWB41 - U39- SnPb Solder, SnCu Finish @500x



PWB41 - U39- SnPb Solder, SnCu Finish @500x

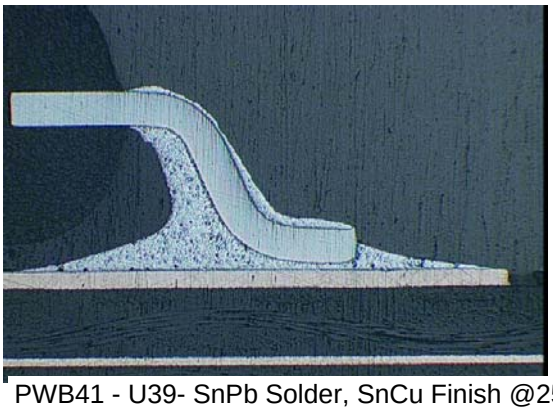


PWB41 - U39- SnPb Solder, SnCu Finish @500x

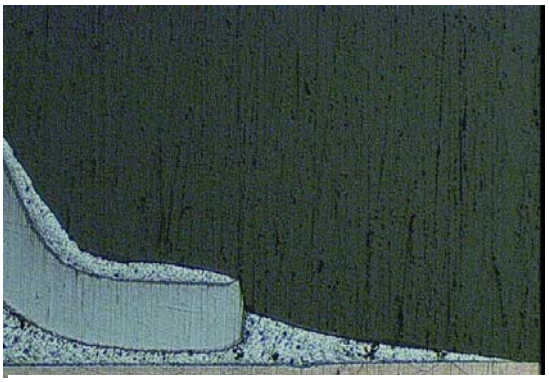


PWB41 - U39- SnPb Solder, SnCu Finish @500x

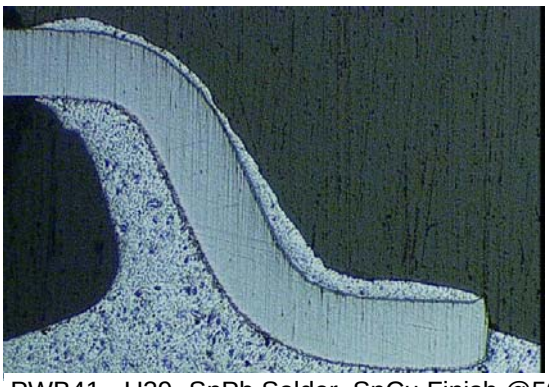
Right Side



PWB41 - U39- SnPb Solder, SnCu Finish @25x

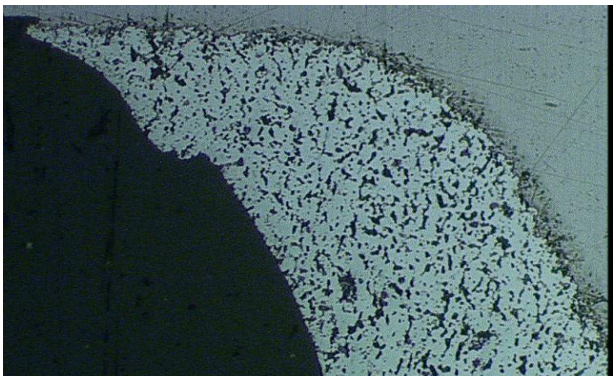


PWB41 - U39- SnPb Solder, SnCu Finish @50x

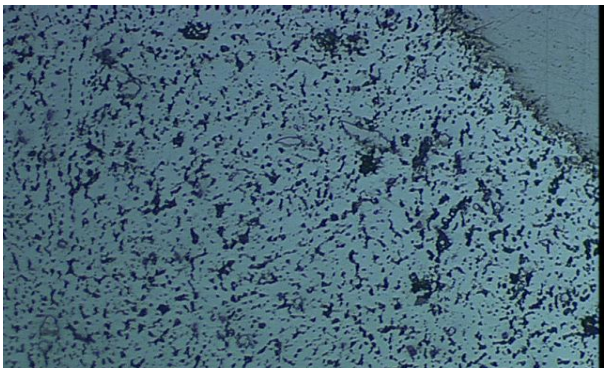


PWB41 - U39- SnPb Solder, SnCu Finish @50x

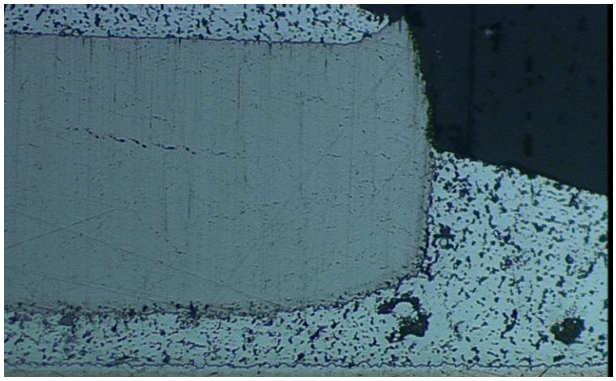
Right Side



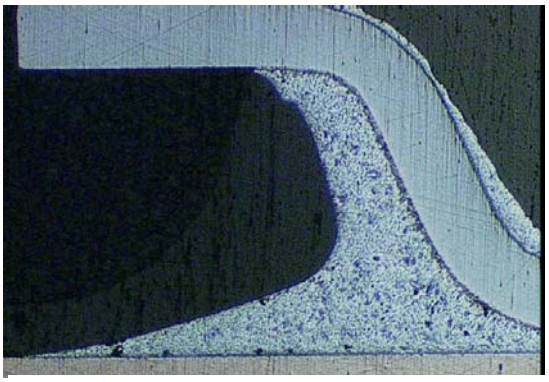
PWB41 - U39- SnPb Solder, SnCu Finish @200x



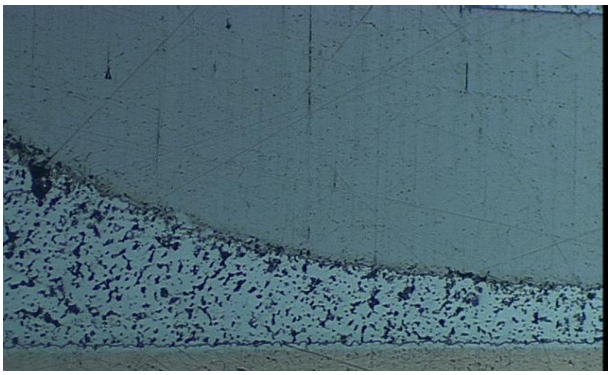
PWB41 - U39- SnPb Solder, SnCu Finish @200x



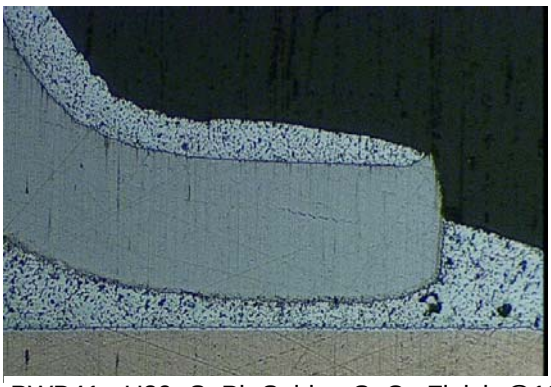
PWB41 - U39- SnPb Solder, SnCu Finish @200x



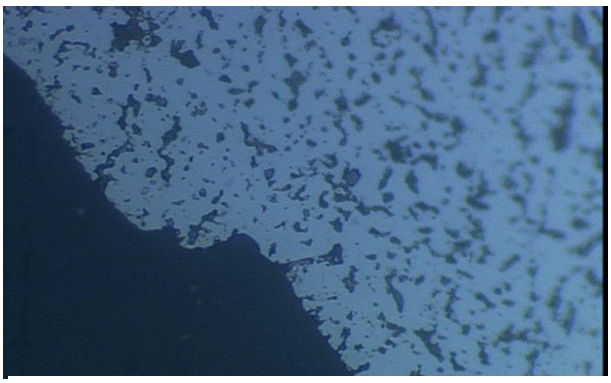
PWB41 - U39- SnPb Solder, SnCu Finish @50x



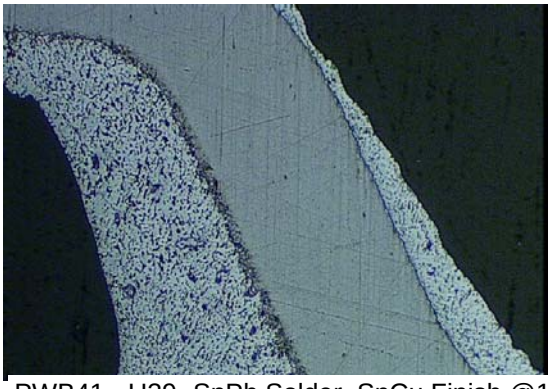
PWB41 - U39- SnPb Solder, SnCu Finish @200x



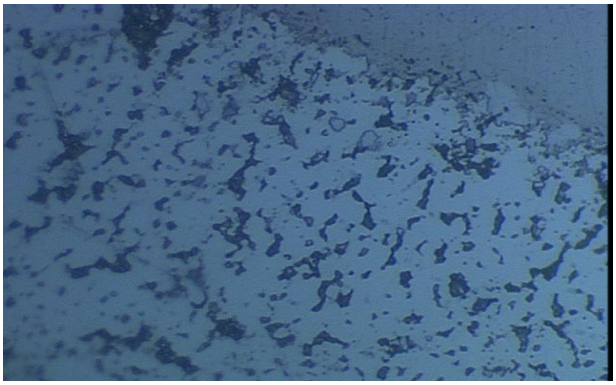
PWB41 - U39- SnPb Solder, SnCu Finish @100x



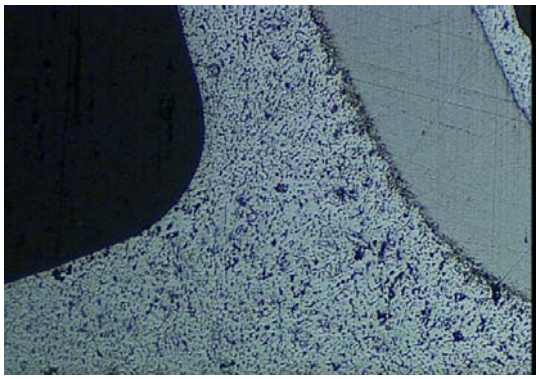
PWB41 - U39- SnPb Solder, SnCu Finish @500x



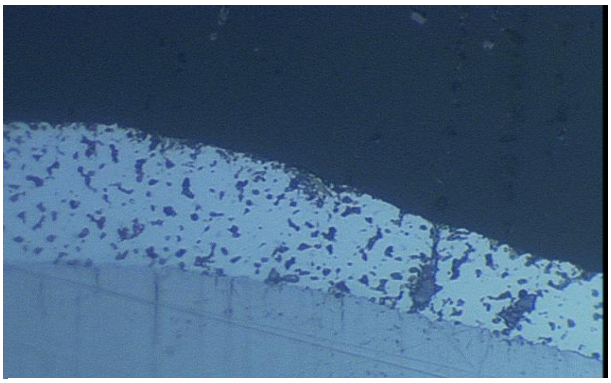
PWB41 - U39- SnPb Solder, SnCu Finish @100x



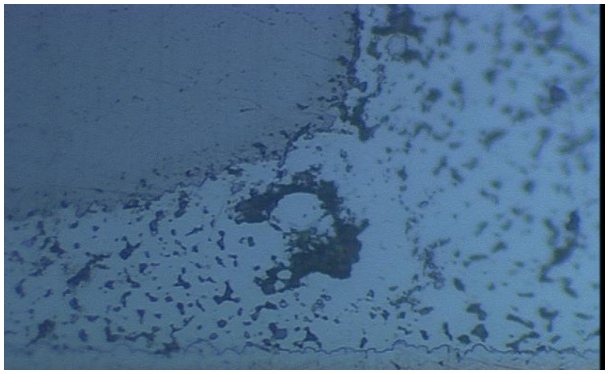
PWB41 - U39- SnPb Solder, SnCu Finish @500x



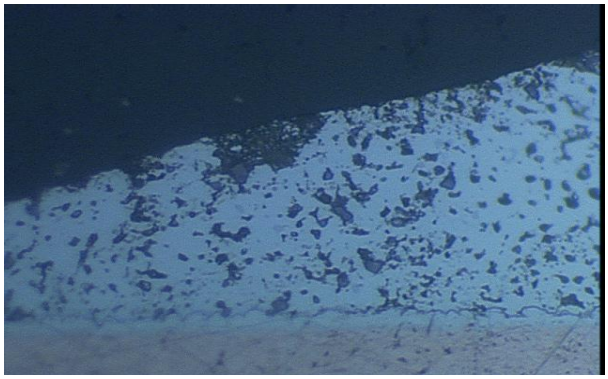
PWB41 - U39- SnPb Solder, SnCu Finish @100x



PWB41 - U39- SnPb Solder, SnCu Finish @500x



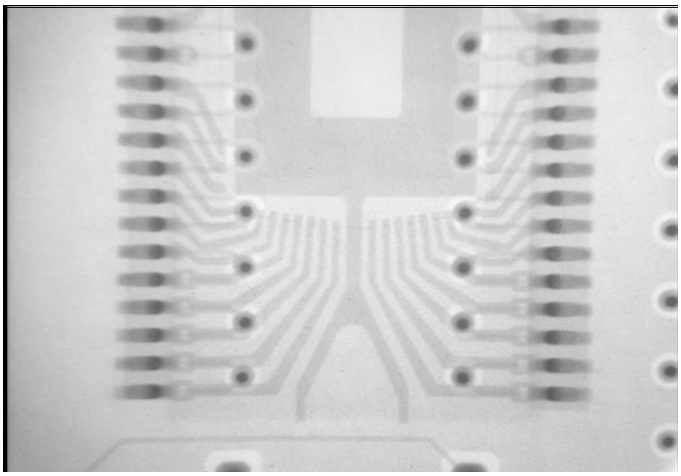
PWB41 - U39- SnPb Solder, SnCu Finish @500x



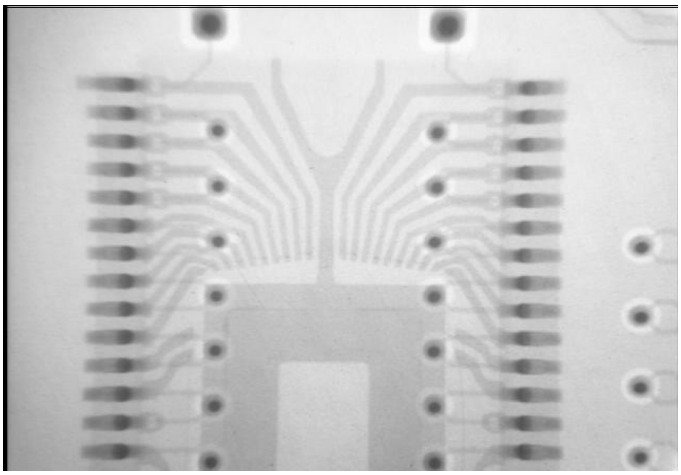
PWB41 - U39- SnPb Solder, SnCu Finish @500x

Part # U39

X-Ray

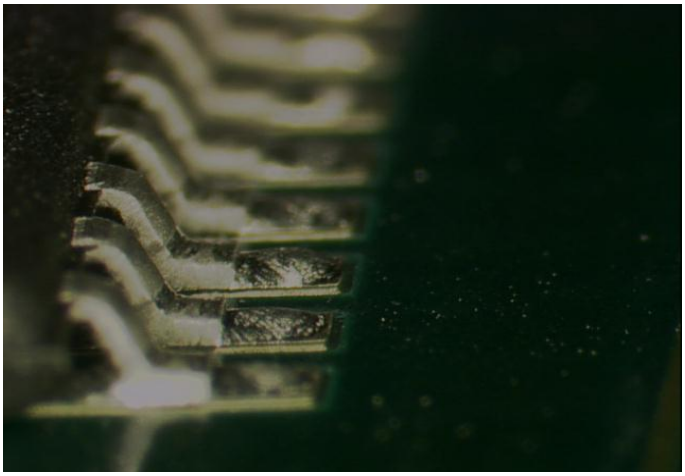


PWB41 - U39- SnPb Solder, SnCu Finish, X-Ray

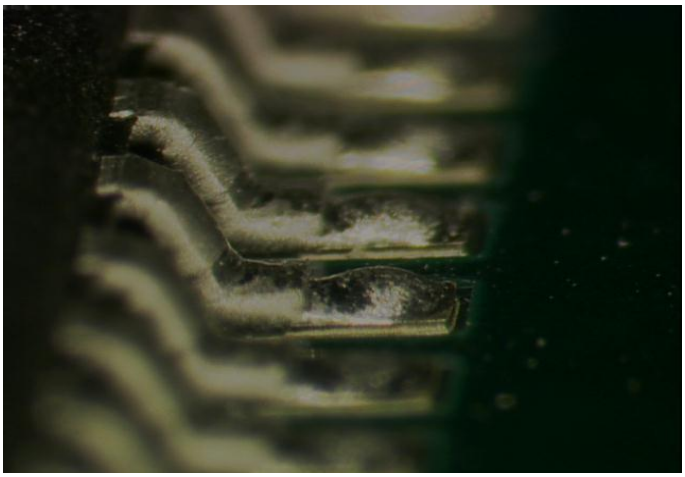


PWB41 - U39- SnPb Solder, SnCu Finish, X-Ray

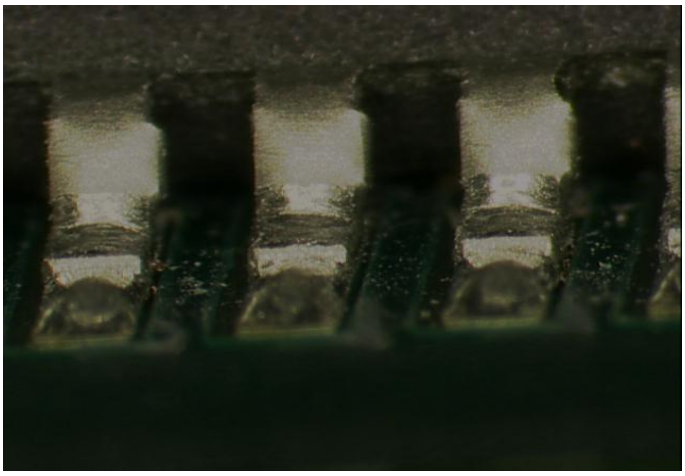
Microscope



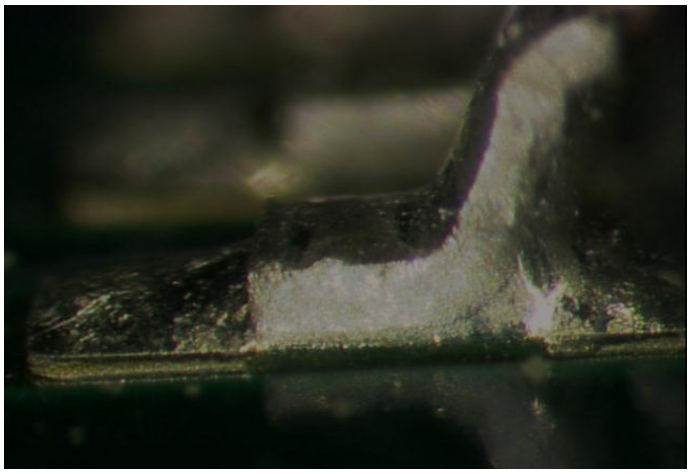
PWB41 - U39- SnPb Solder, SnCu Finish @12x



PWB41 - U39- SnPb Solder, SnCu Finish @17x



PWB41 - U39- SnPb Solder, SnCu Finish @26x



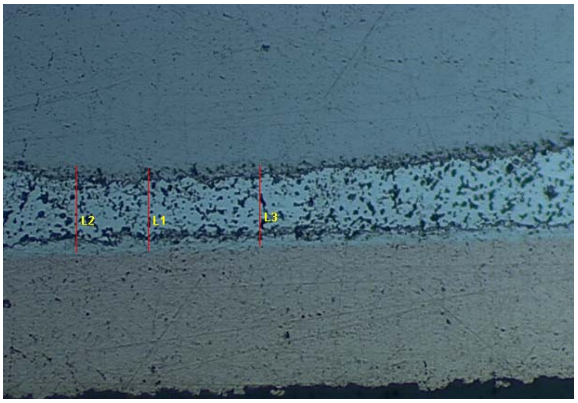
PWB41 - U39- SnPb Solder, SnCu Finish @51x

Part # U39

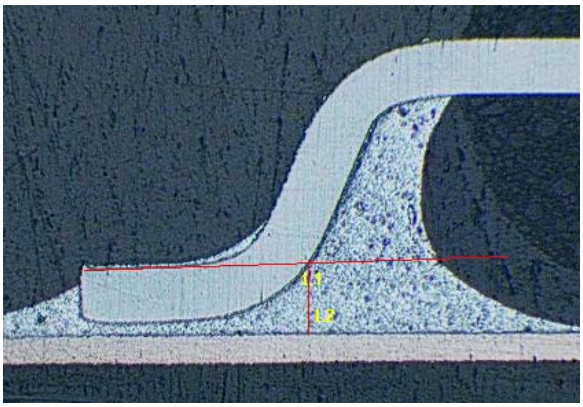
Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0014057
Meas 2	0.0014782
Meas 3	0.0013623
Avg	0.0014154

Min. Required Heel Fillet (in.)
0.0066666



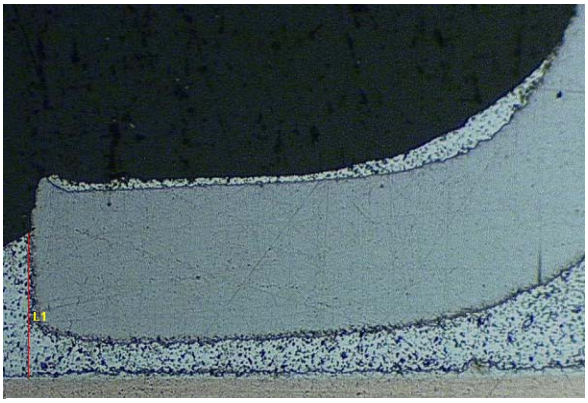
PWB41 - U39- Min. Lead/Pad Distance



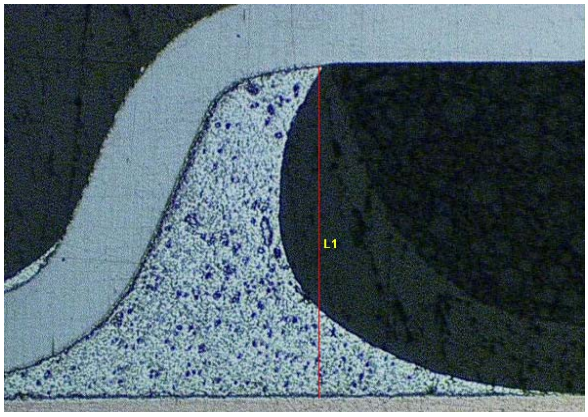
PWB41 - U39- Min. Required Heel Fillet

Toe (in.)
0.0047976

Heel Fillet (in.)
0.0218497



PWB41 - U39- Toe

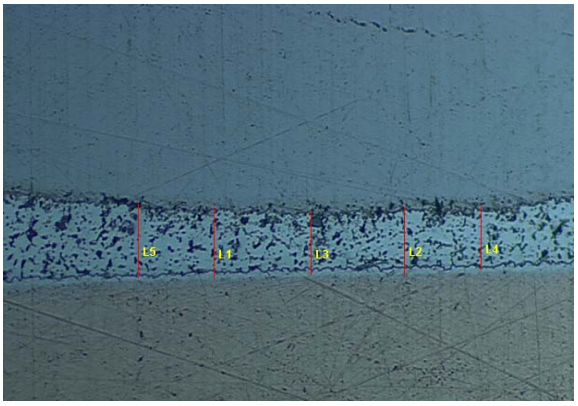


PWB41 - U39- Heel Fillet

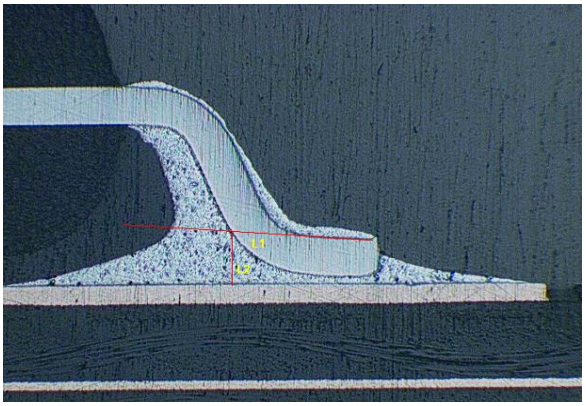
Right

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0012173
Meas 2	0.0011739
Meas 3	0.0011014
Meas 4	0.0010869
Meas 5	0.0012608
Avg	0.0011681

Min. Required Heel Fillet (in.)
0.0072413



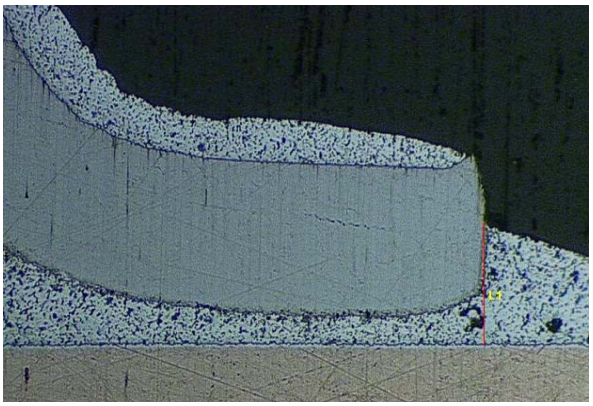
PWB41 - U39- Min. Lead/Pad Distance



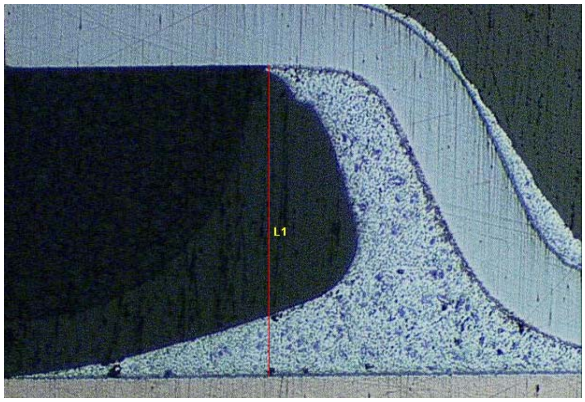
PWB41 - U39- Min. Required Heel Fillet

Toe (in.)
0.0042196

Heel Fillet (in.)
0.0215028



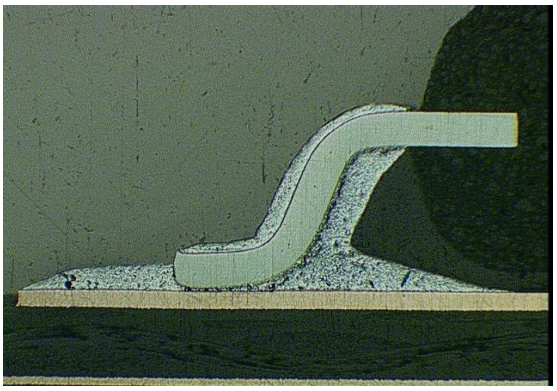
PWB41 - U39- Toe



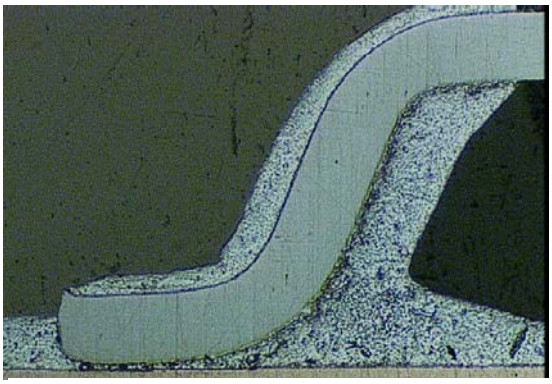
PWB41 - U39- Heel Fillet

U40

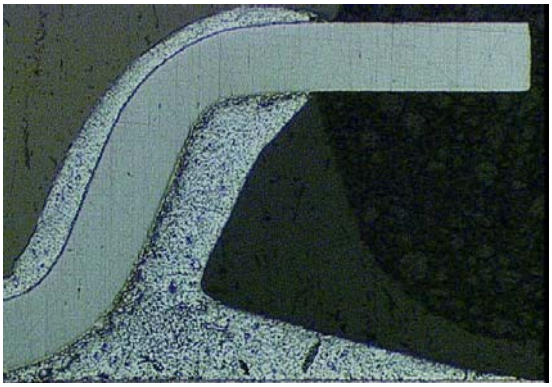
Left Side



PWB41 - U40- SnPb Solder, SnPb Finish @25x

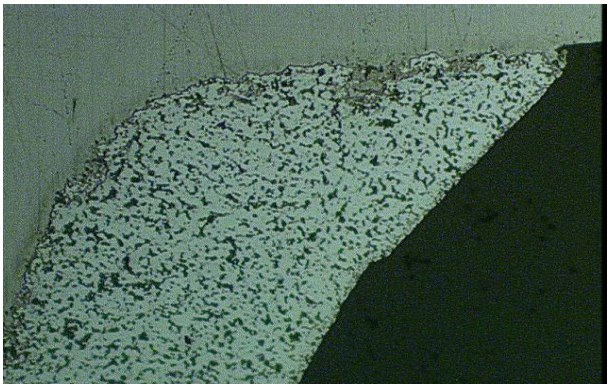


PWB41 - U40- SnPb Solder, SnPb Finish @50x

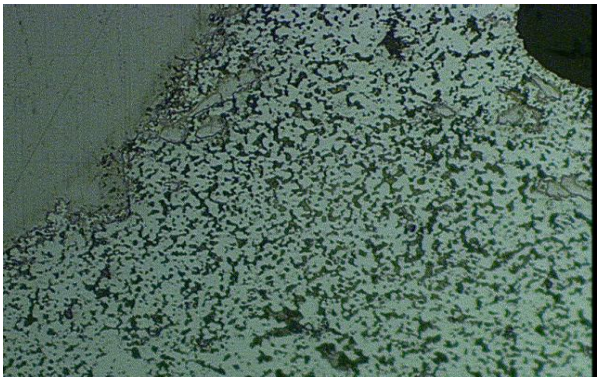


PWB41 - U40- SnPb Solder, SnPb Finish @50x

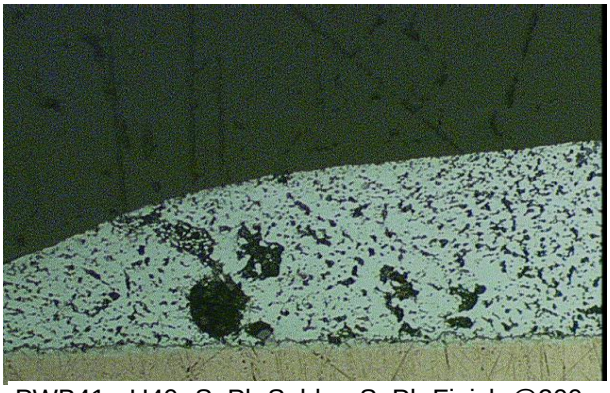
Left Side



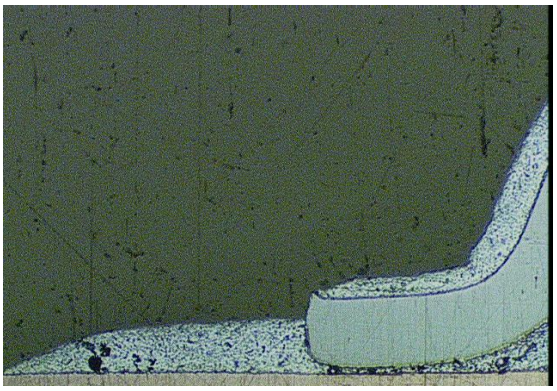
PWB41 - U40- SnPb Solder, SnPb Finish @200x



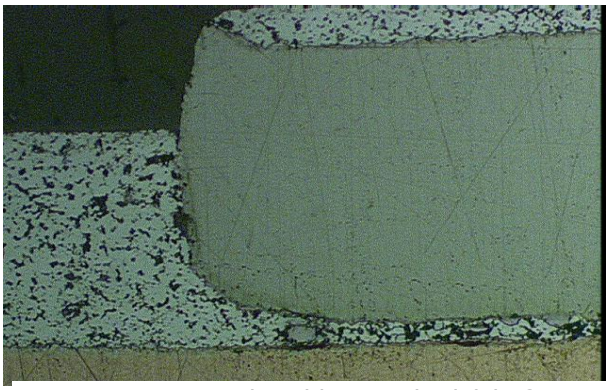
PWB41 - U40- SnPb Solder, SnPb Finish @200x



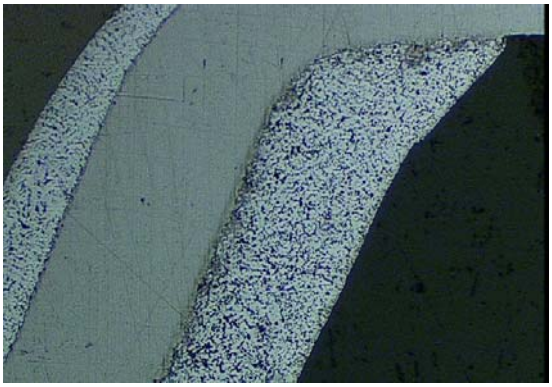
PWB41 - U40- SnPb Solder, SnPb Finish @200x



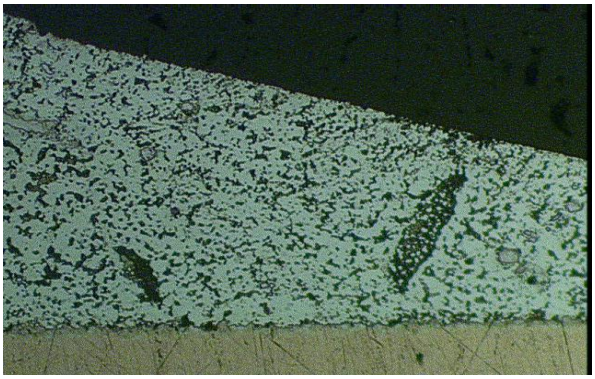
PWB41 - U40- SnPb Solder, SnPb Finish @50x



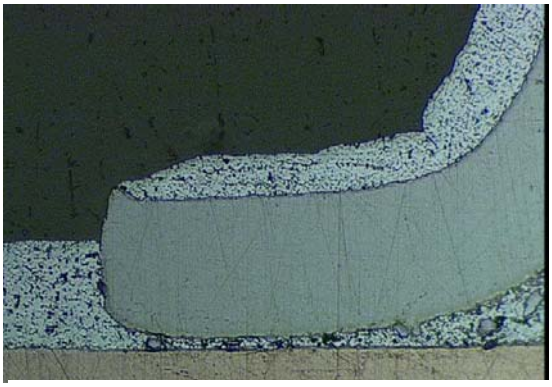
PWB41 - U40- SnPb Solder, SnPb Finish @200x



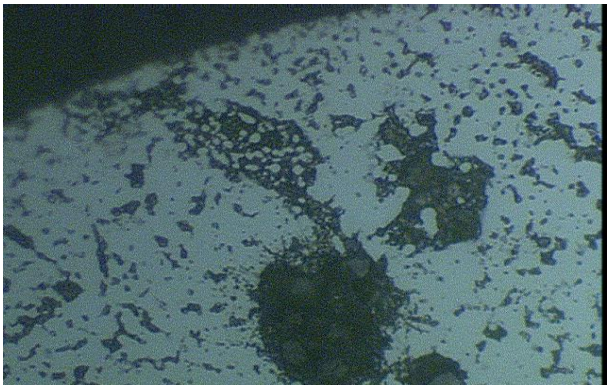
PWB41 - U40- SnPb Solder, SnPb Finish @100x



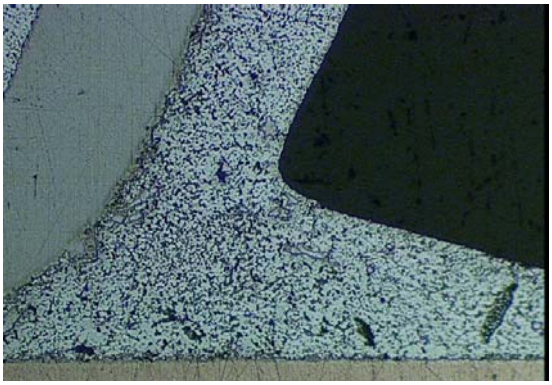
PWB41 - U40- SnPb Solder, SnPb Finish @200x



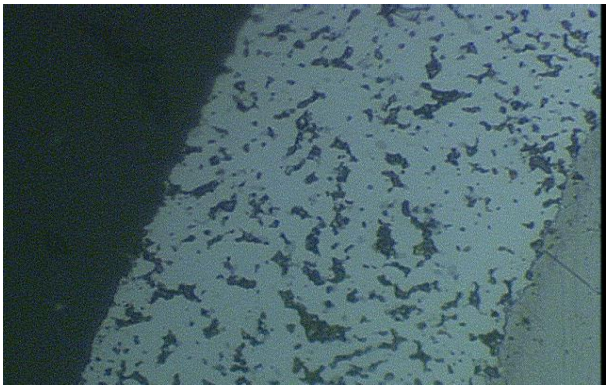
PWB41 - U40- SnPb Solder, SnPb Finish @100x



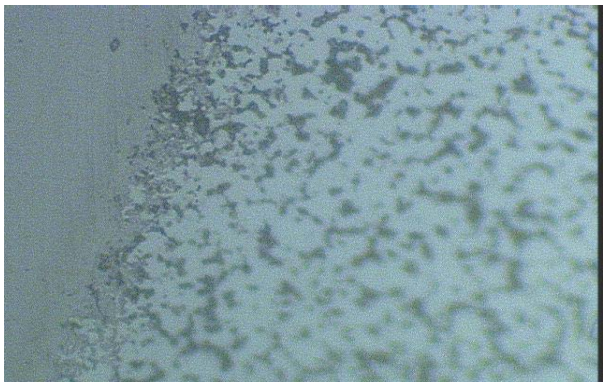
PWB41 - U40- SnPb Solder, SnPb Finish @500x



PWB41 - U40- SnPb Solder, SnPb Finish @100x



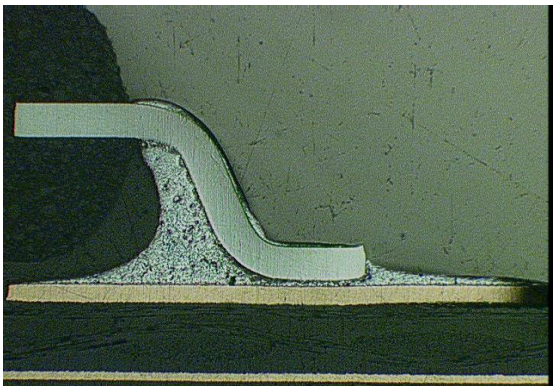
PWB41 - U40- SnPb Solder, SnPb Finish @500x



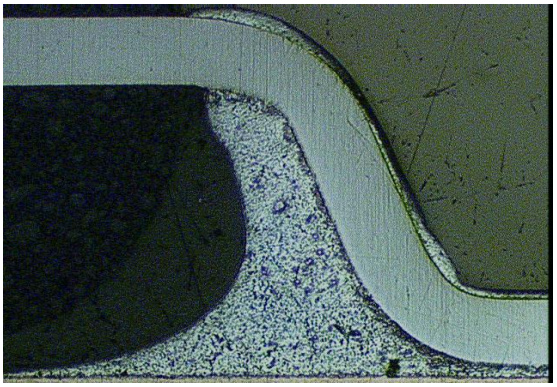
PWB41 - U40- SnPb Solder, SnPb Finish @500x

PWB41 - U40- SnPb Solder, SnPb Finish @500x

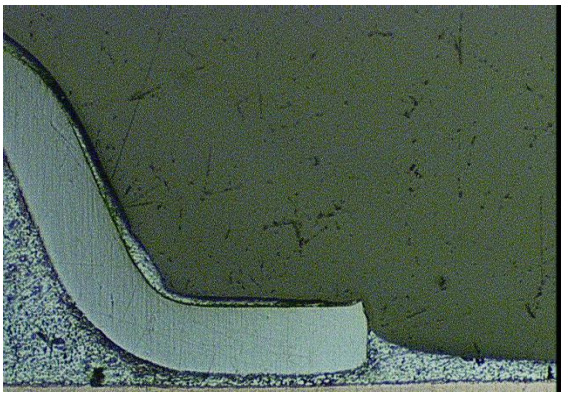
Right Side



PWB41 - U40- SnPb Solder, SnPb Finish @25x

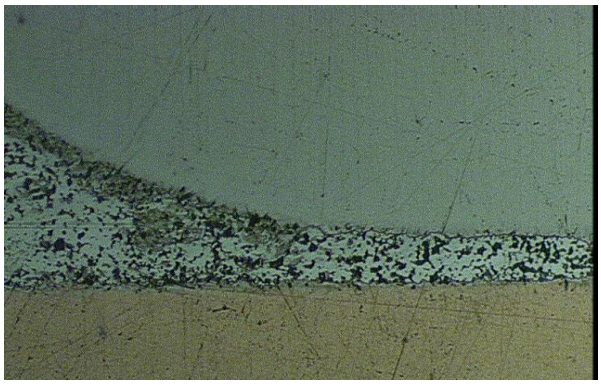


PWB41 - U40- SnPb Solder, SnPb Finish @50x

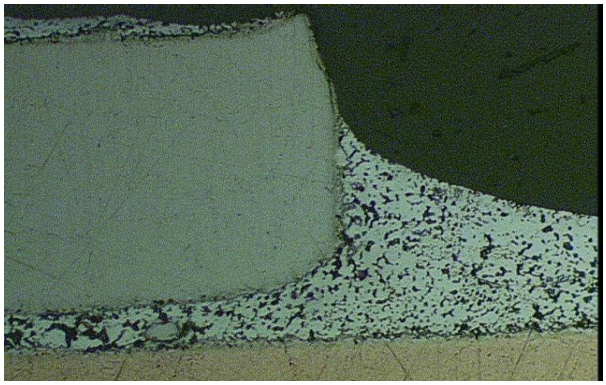


PWB41 - U40- SnPb Solder, SnPb Finish @50x

Right Side

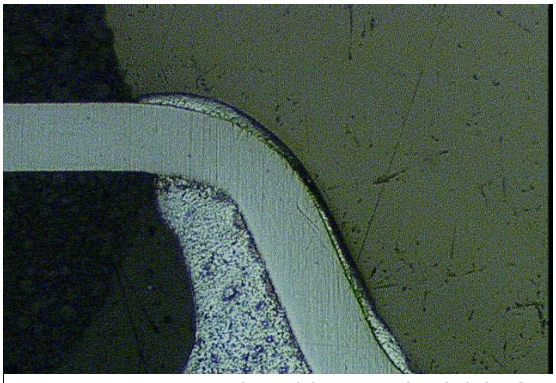


PWB41 - U40- SnPb Solder, SnPb Finish @200x

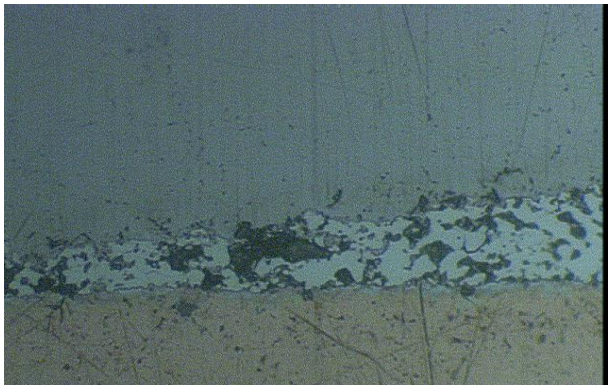


PWB41 - U40- SnPb Solder, SnPb Finish @200x

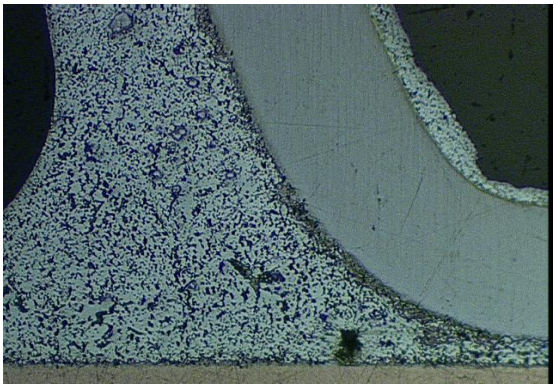
PWB41 - U40- SnPb Solder, SnPb Finish @200x



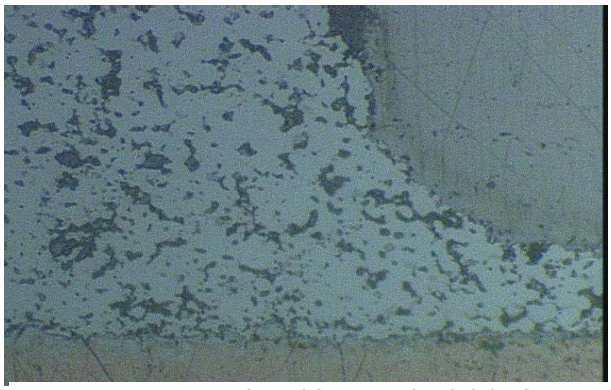
PWB41 - U40- SnPb Solder, SnPb Finish @50x



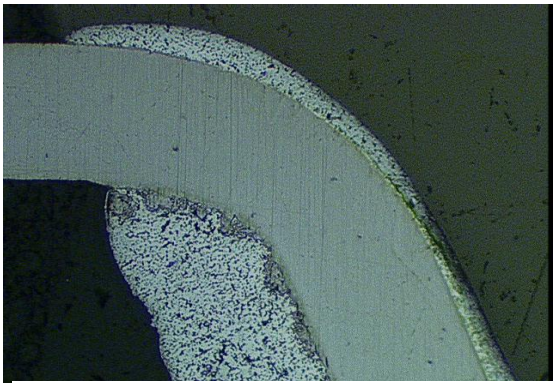
PWB41 - U40- SnPb Solder, SnPb Finish @500x



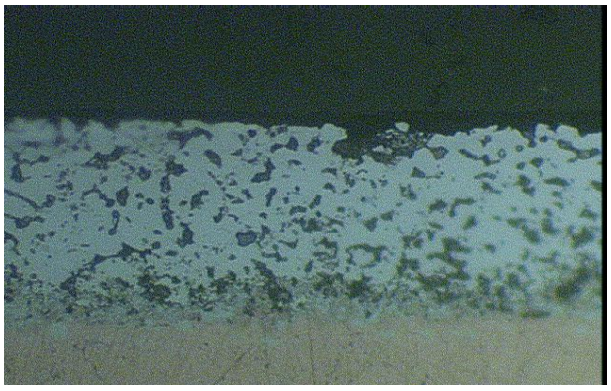
PWB41 - U40- SnPb Solder, SnPb Finish @100x



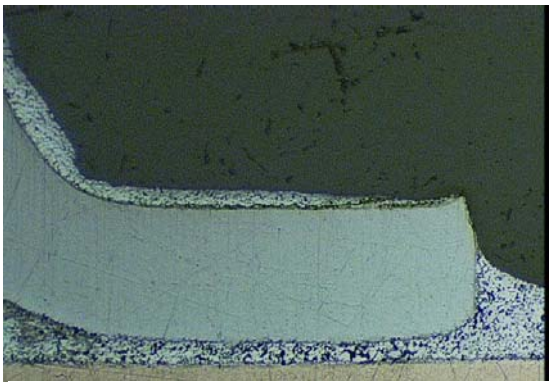
PWB41 - U40- SnPb Solder, SnPb Finish @500x



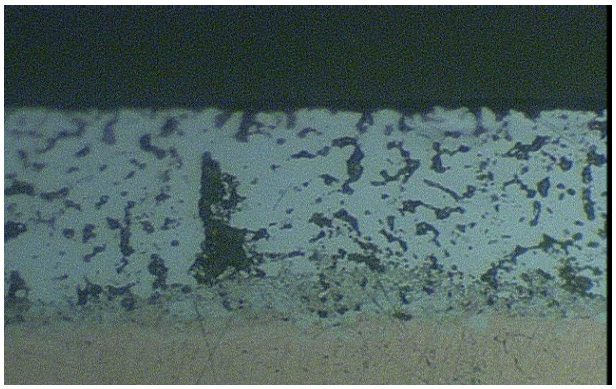
PWB41 - U40- SnPb Solder, SnPb Finish @100x



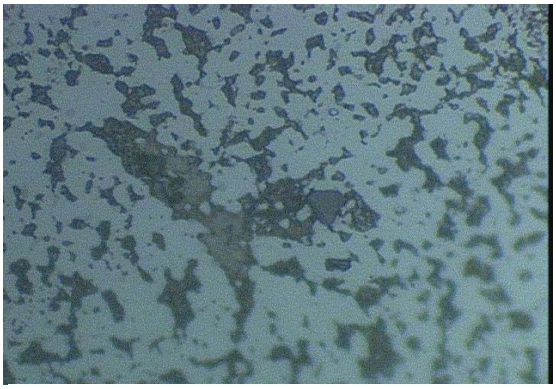
PWB41 - U40- SnPb Solder, SnPb Finish @500x



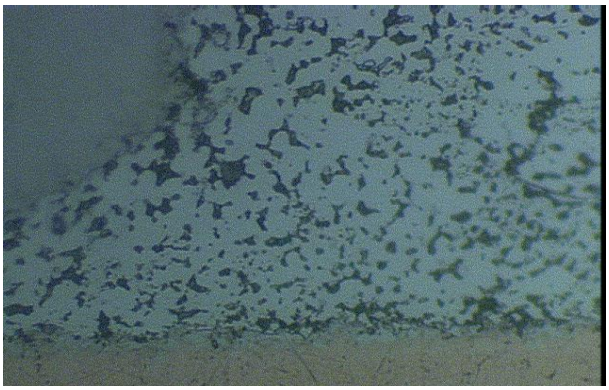
PWB41 - U40- SnPb Solder, SnPb Finish @100x



PWB41 - U40- SnPb Solder, SnPb Finish @500x

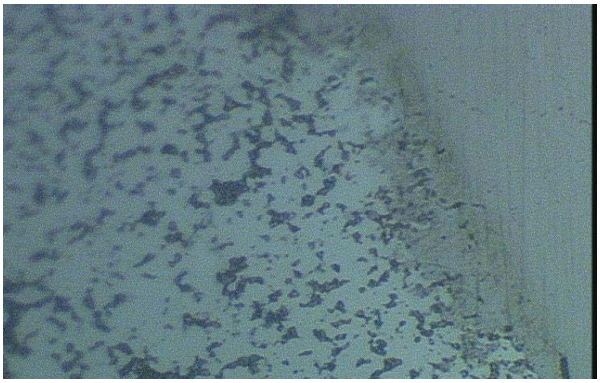


PWB41 - U40- SnPb Solder, SnPb Finish @500x



PWB41 - U40- SnPb Solder, SnPb Finish @500x

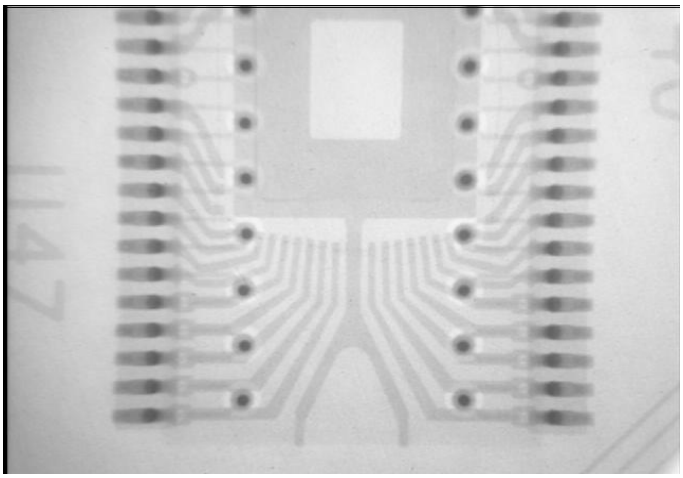
PWB41 - U40- SnPb Solder, SnPb Finish @500x



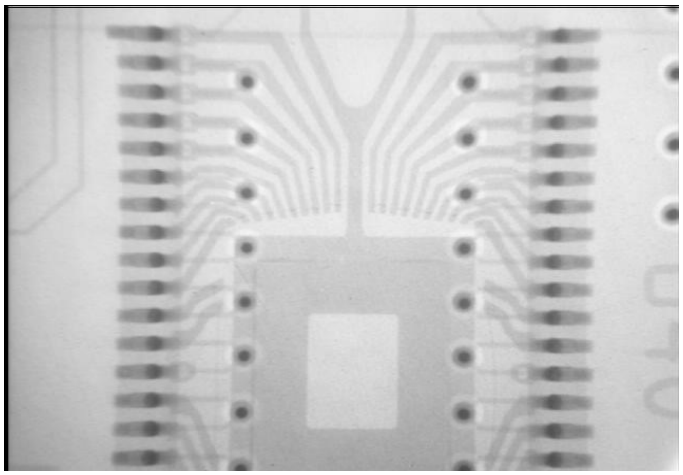
PWB41 - U40- SnPb Solder, SnPb Finish @500x

Part # U40

X-Ray

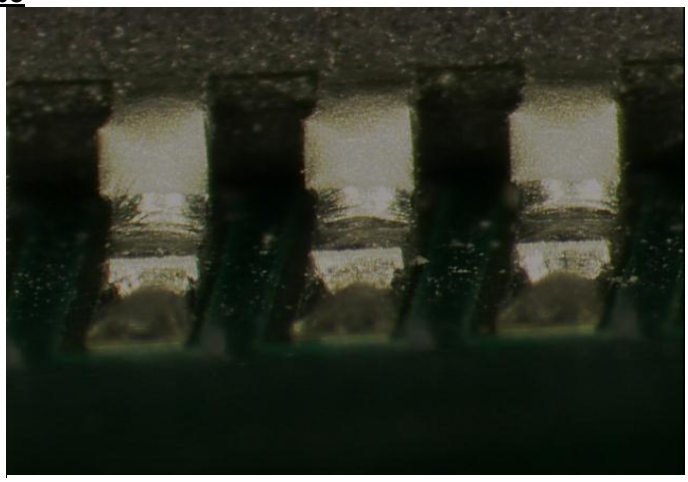


PWB41 - U40- SnPb Solder, SnPb Finish, X-Ray

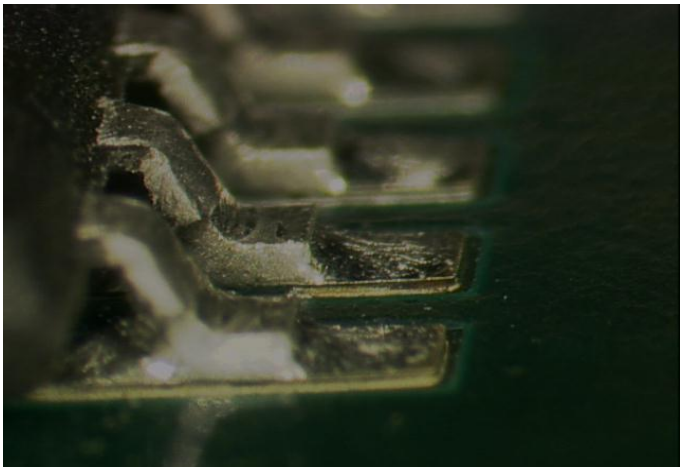


PWB41 - U40- SnPb Solder, SnPb Finish, X-Ray

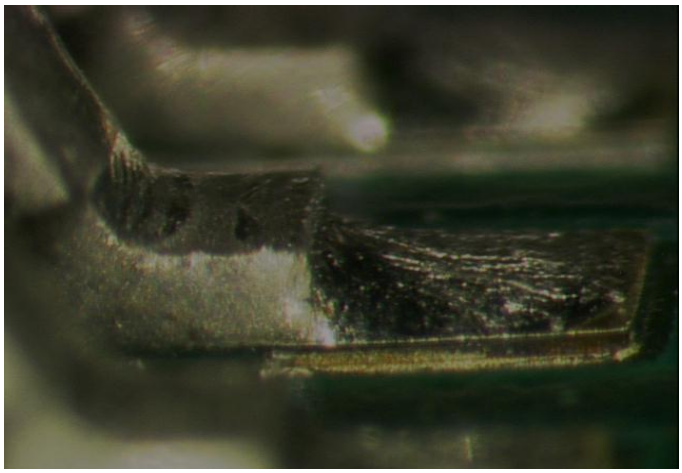
Microscope



PWB41 - U40- SnPb Solder, SnPb Finish @13x



PWB41 - U40- SnPb Solder, SnPb Finish @13x

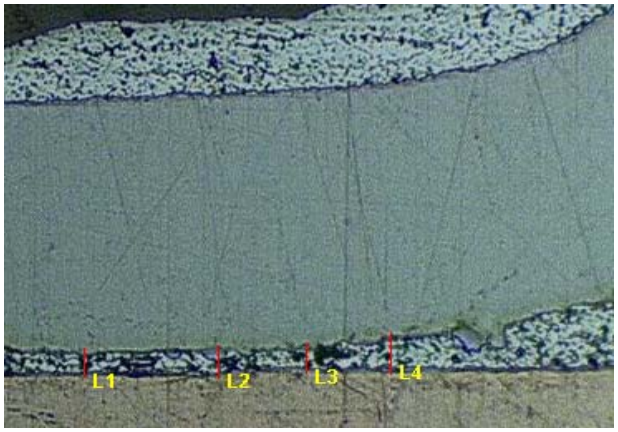


PWB41 - U40- SnPb Solder, SnPb Finish @51x

Part # U40

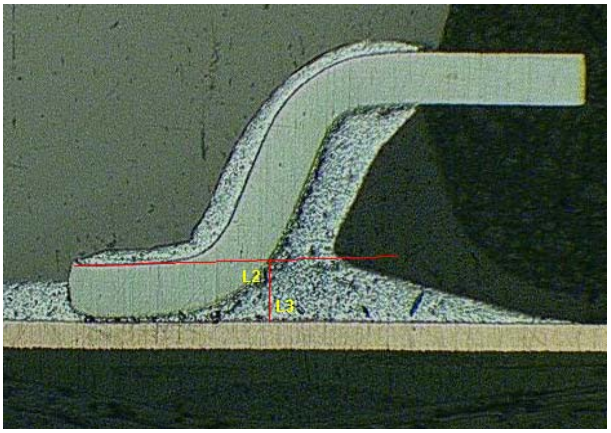
Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0006069
Meas 2	0.0006936
Meas 3	0.0006358
Meas 4	0.000867
Avg	0.0007008



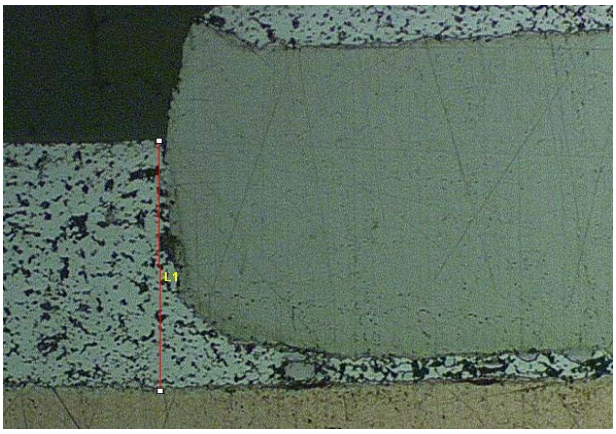
PWB41 - U40- Min. Lead/Pad Distance

Min. Required Heel Fillet (in.)
0.0058620



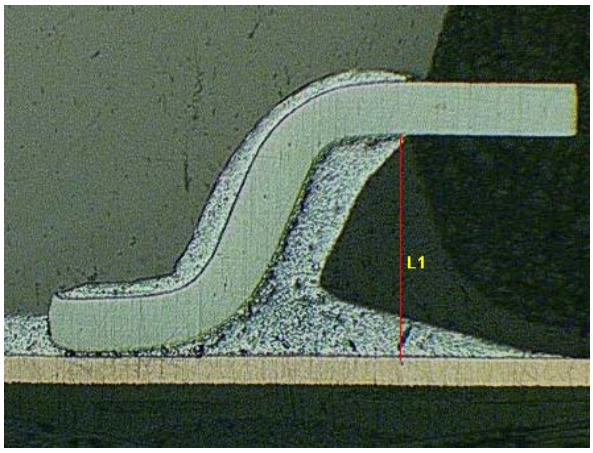
PWB41 - U40- Min. Required Heel Fillet

Toe (in.)
0.0040435



PWB41 - U40- Toe

Heel Fillet (in.)
0.0214942

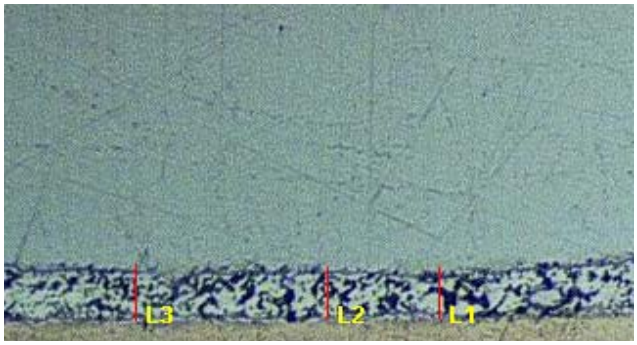


PWB41 - U40- Heel Fillet

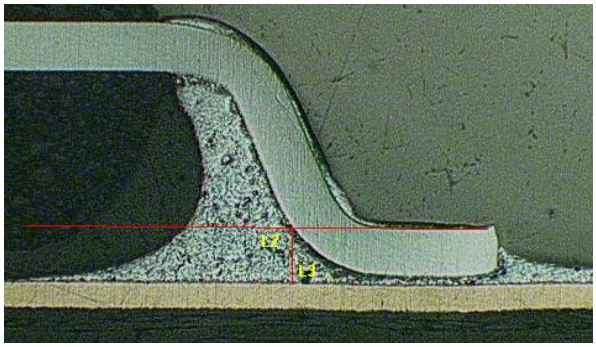
Right

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0008959
Meas 2	0.0008959
Meas 3	0.0009826
Avg	0.0009248

Min. Required Heel Fillet (in.)
0.0057471



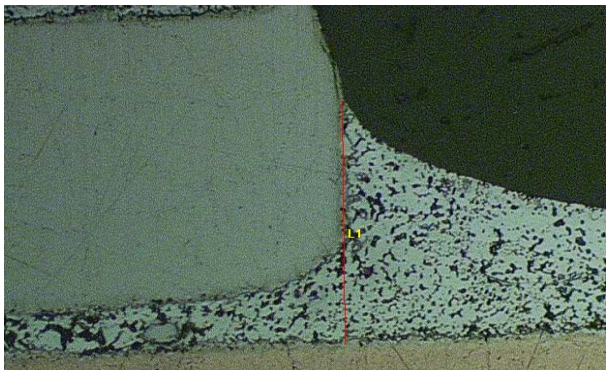
PWB41 - U40- Min. Lead/Pad Distance



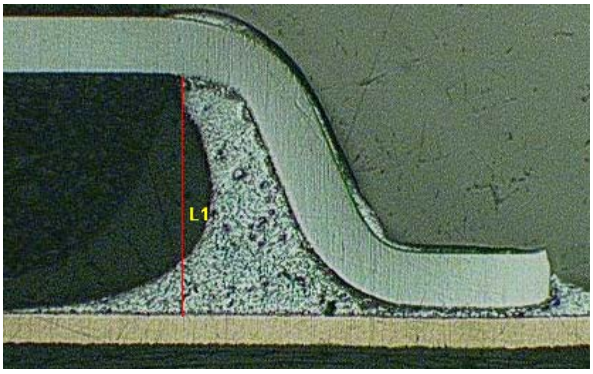
PWB41 - U40- Min. Required Heel Fillet

Toe (in.)
0.0042031

Heel Fillet (in.)
0.0211494



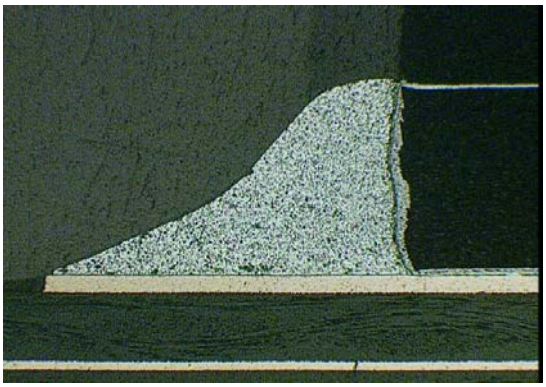
PWB41 - U40- Toe



PWB41 - U40- Heel Fillet

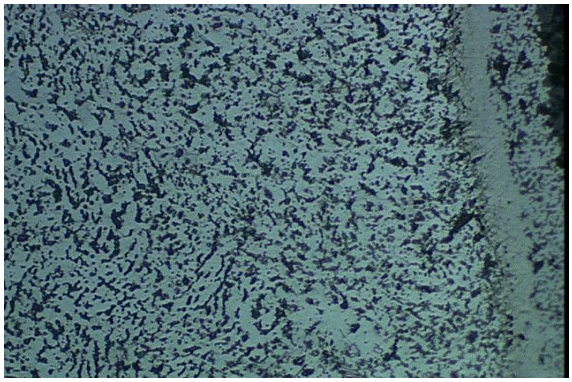
U45

Left Side

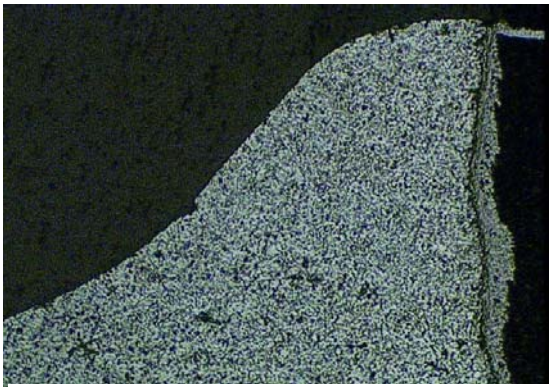


PWB41 - U45- SnPb Solder, SAC Finish @25x

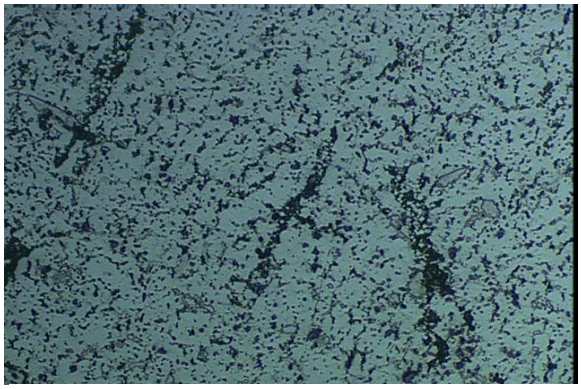
Left Side



PWB41 - U45- SnPb Solder, SAC Finish @200x

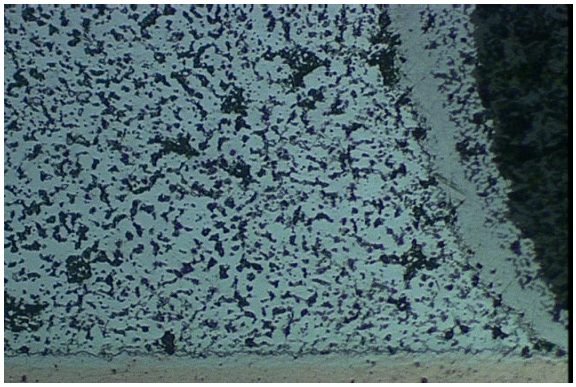


PWB41 - U45- SnPb Solder, SAC Finish @50x

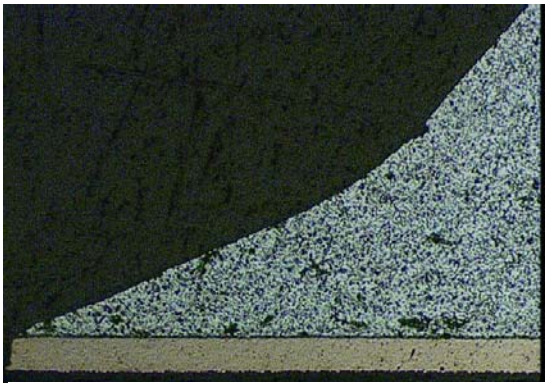


PWB41 - U45- SnPb Solder, SAC Finish @200x

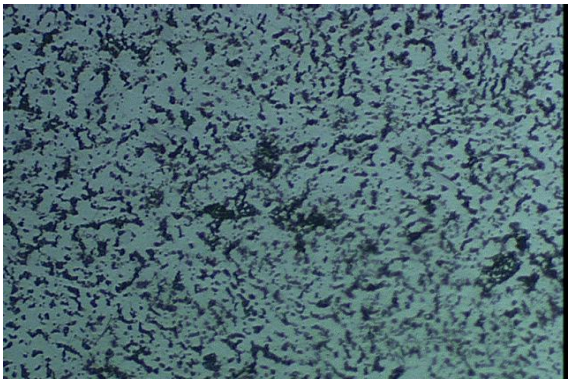
PWB41 - U45- SnPb Solder, SAC Finish @50x



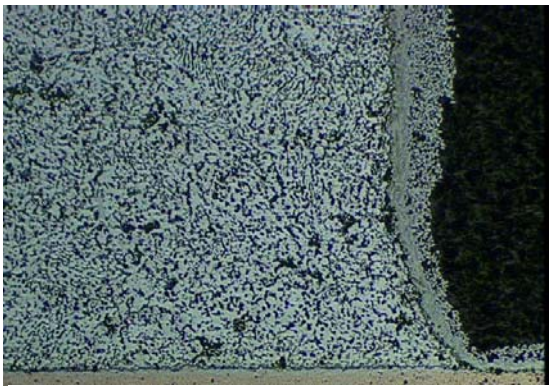
PWB41 - U45- SnPb Solder, SAC Finish @200x



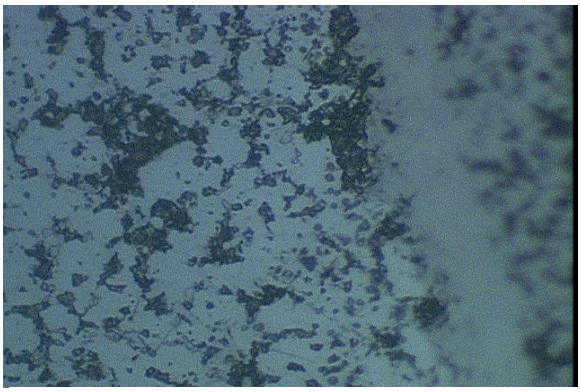
PWB41 - U45- SnPb Solder, SAC Finish @50x



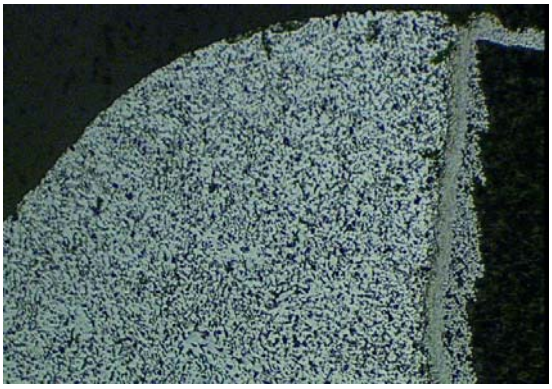
PWB41 - U45- SnPb Solder, SAC Finish @200x



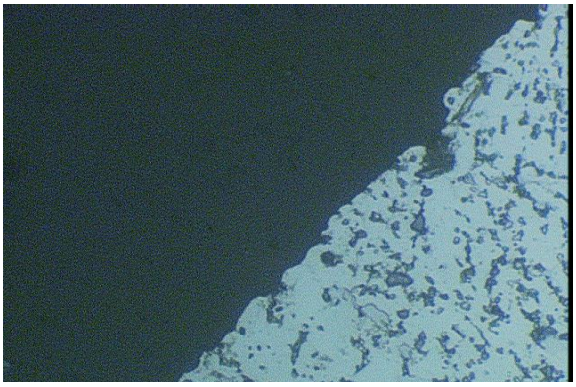
PWB41 - U45- SnPb Solder, SAC Finish @100x



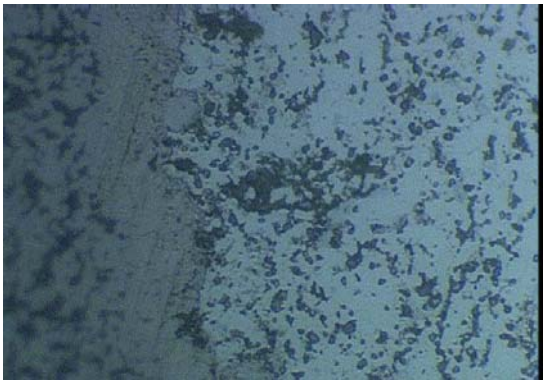
PWB41 - U45- SnPb Solder, SAC Finish @500x



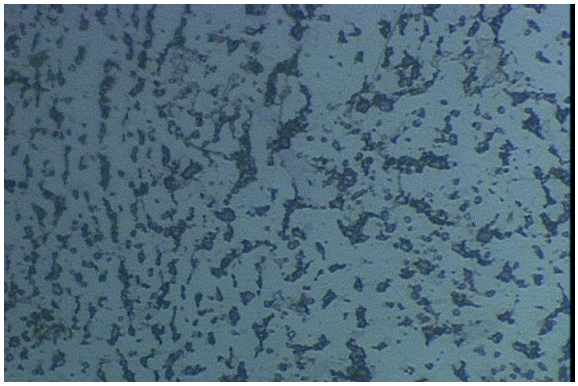
PWB41 - U45- SnPb Solder, SAC Finish @100x



PWB41 - U45- SnPb Solder, SAC Finish @500x

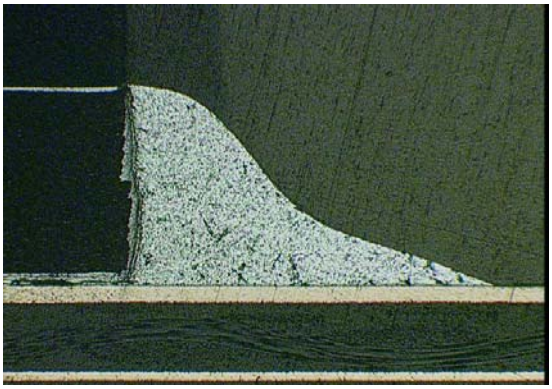


PWB41 - U45- SnPb Solder, SAC Finish @500x

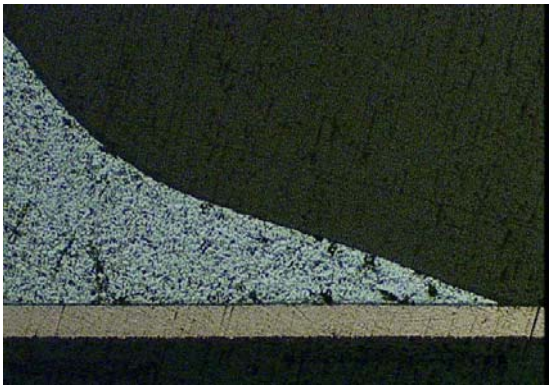


PWB41 - U45- SnPb Solder, SAC Finish @500x

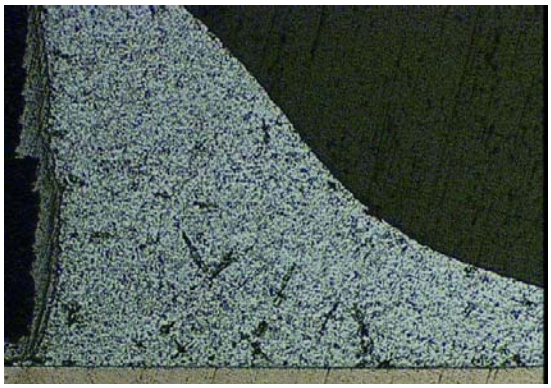
Right Side



PWB41 - U45- SnPb Solder, SAC Finish @25x

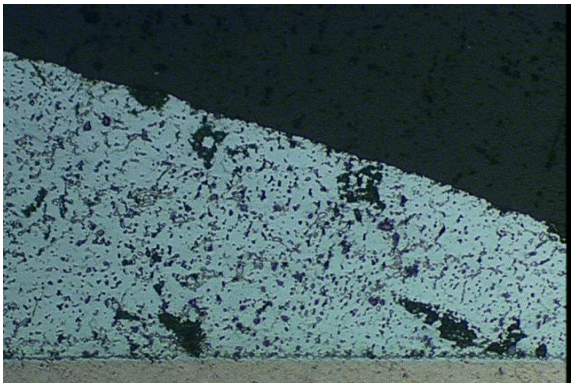


PWB41 - U45- SnPb Solder, SAC Finish @50x

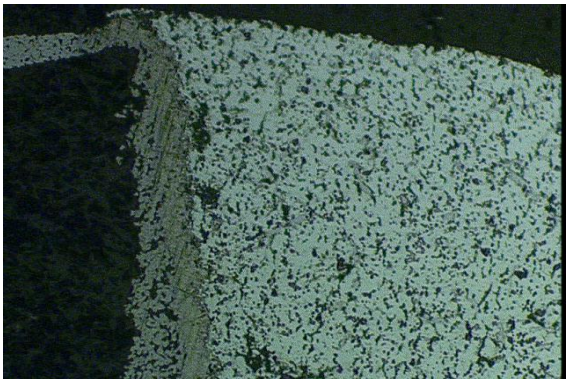


PWB41 - U45- SnPb Solder, SAC Finish @50x

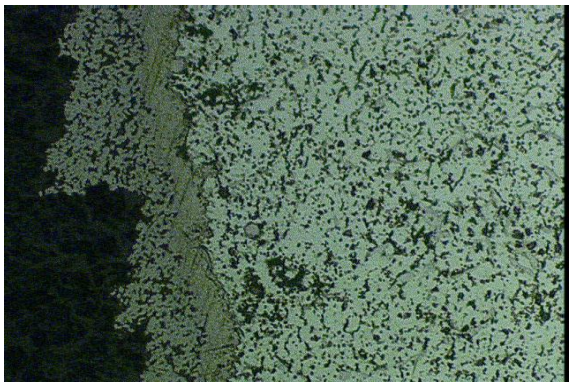
Right Side



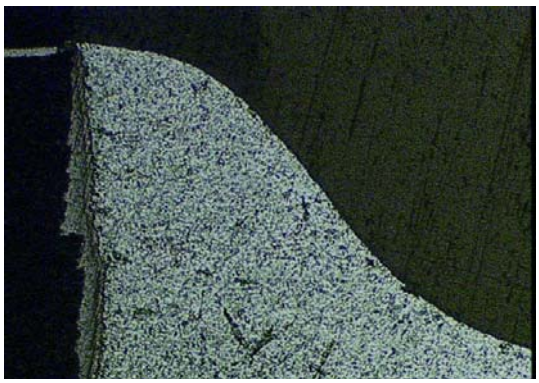
PWB41 - U45- SnPb Solder, SAC Finish @200x



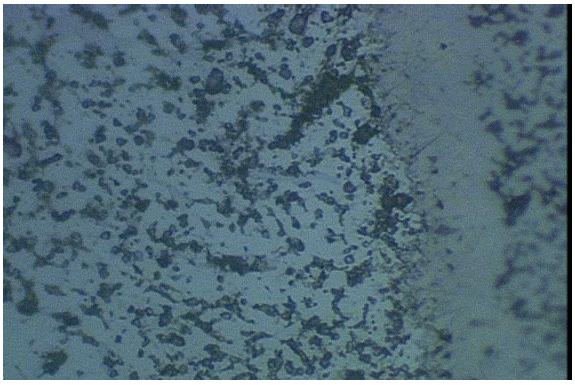
PWB41 - U45- SnPb Solder, SAC Finish @200x



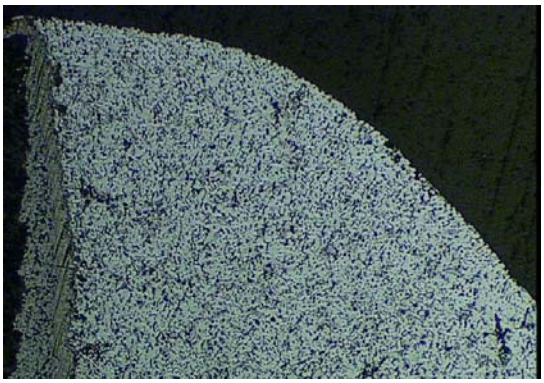
PWB41 - U45- SnPb Solder, SAC Finish @200x



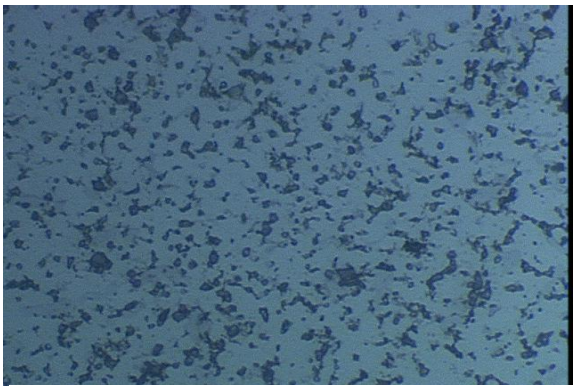
PWB41 - U45- SnPb Solder, SAC Finish @50x



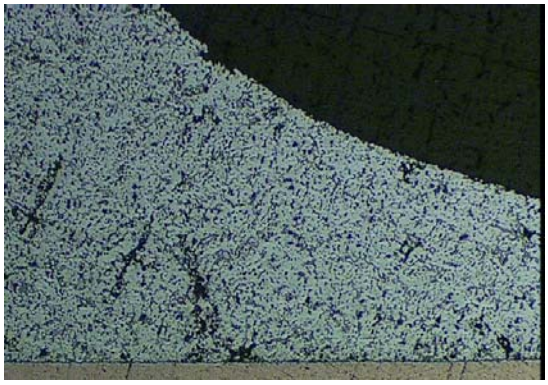
PWB41 - U45- SnPb Solder, SAC Finish @500x



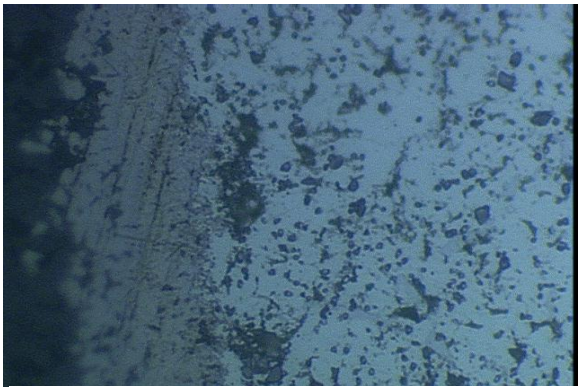
PWB41 - U45- SnPb Solder, SAC Finish @100x



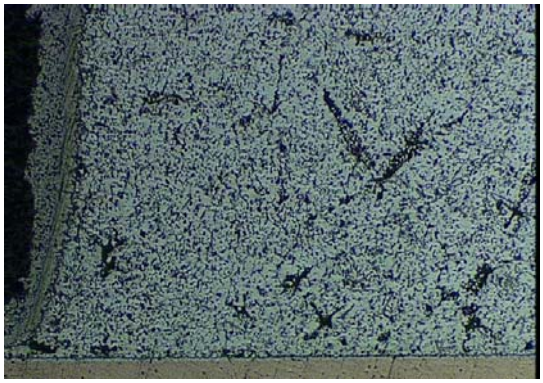
PWB41 - U45- SnPb Solder, SAC Finish @500x



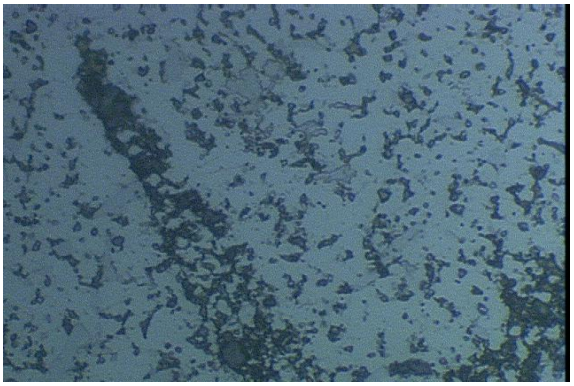
PWB41 - U45- SnPb Solder, SAC Finish @100x



PWB41 - U45- SnPb Solder, SAC Finish @500x



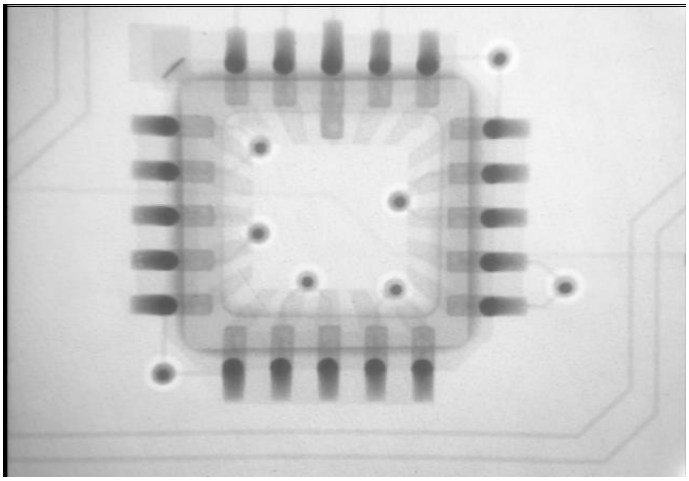
PWB41 - U45- SnPb Solder, SAC Finish @100x



PWB41 - U45- SnPb Solder, SAC Finish @500x

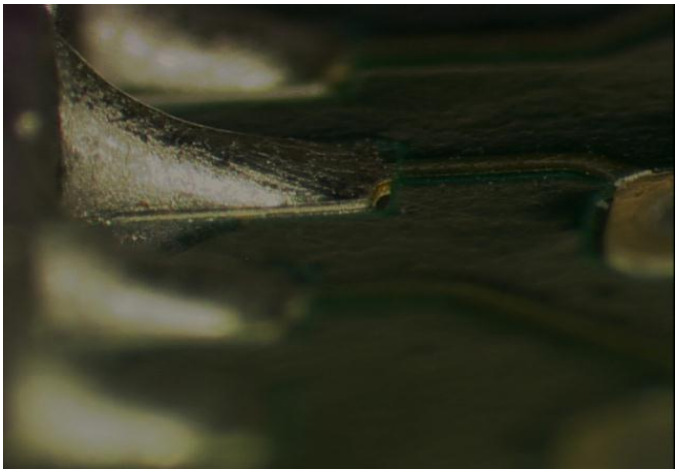
Part # U45

X-Ray



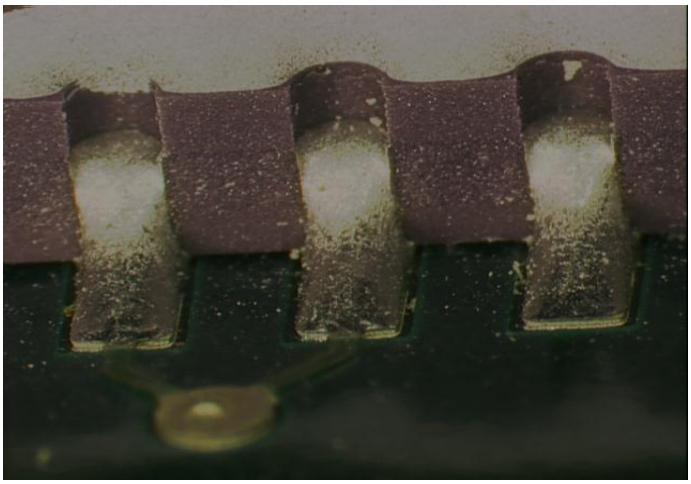
PWB41 - U45- SnPb Solder, SAC Finish, X-Ray

Microscope



PWB41 - U45- SnPb Solder, SAC Finish @26x

PWB41 - U45- SnPb Solder, SAC Finish @13x

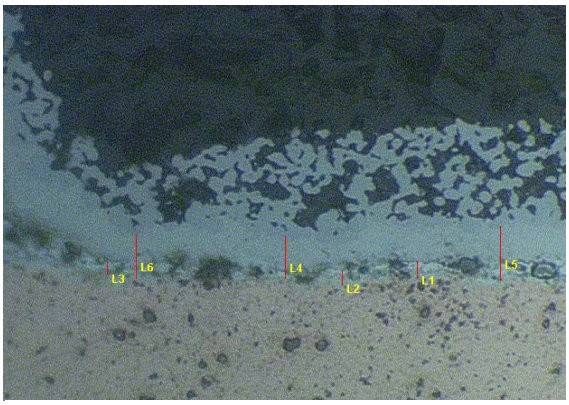


PWB41 - U45- SnPb Solder, SAC Finish @17x

Part # U45

Left

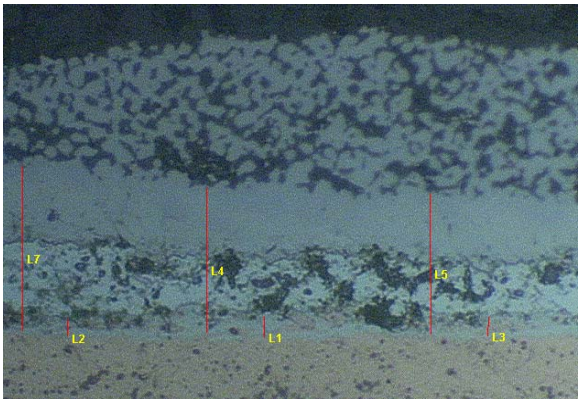
Category	Min. Lead/Pad Distance (in.)	Intermetallic (in.)
Meas 1	0.0002982	0.0001169
Meas 2	0.0003859	0.0001052
Meas 3	0.0003157	0.0000877
Avg	0.0003333	0.0001033



PWB41 - U45- SnPb Solder, SAC Finish

Right

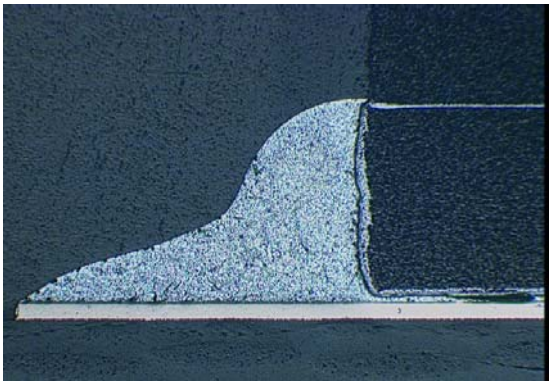
Category	Min. Lead/Pad Distance (in.)	Intermetallic (in.)
Meas 1	0.0010000	0.0001403
Meas 2	0.0009766	0.0001169
Meas 3	0.0011403	0.0001346
Avg	0.0010390	0.0001306



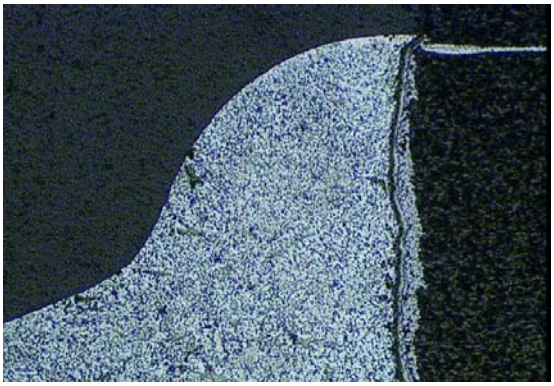
PWB41 - U45- SnPb Solder, SAC Finish

U46

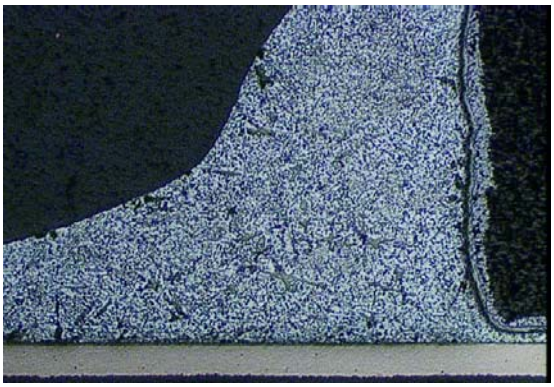
Left Side



PWB41 - U46- SnPb Solder, SnPb Finish @25x

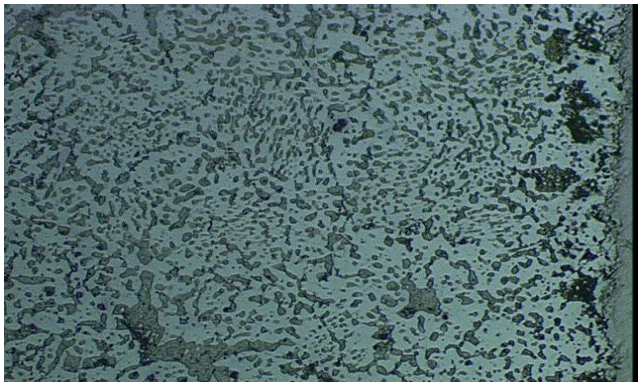


PWB41 - U46- SnPb Solder, SnPb Finish @50x

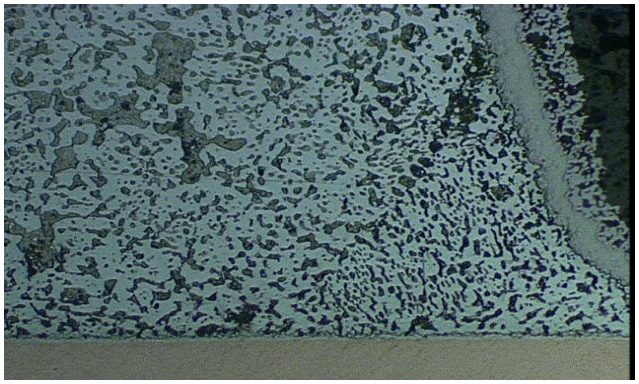


PWB41 - U46- SnPb Solder, SnPb Finish @50x

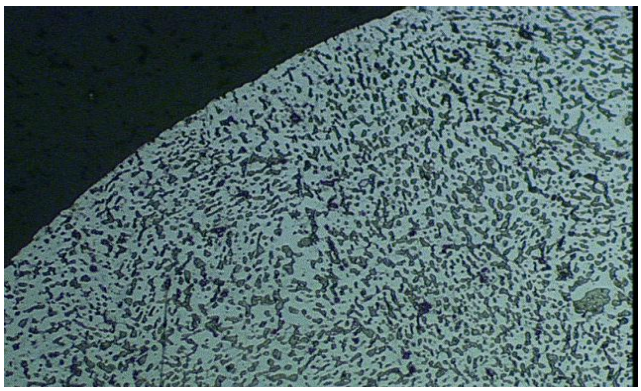
Left Side



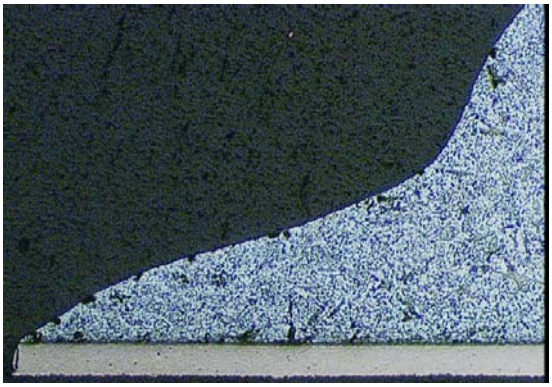
PWB41 - U46- SnPb Solder, SnPb Finish @200x



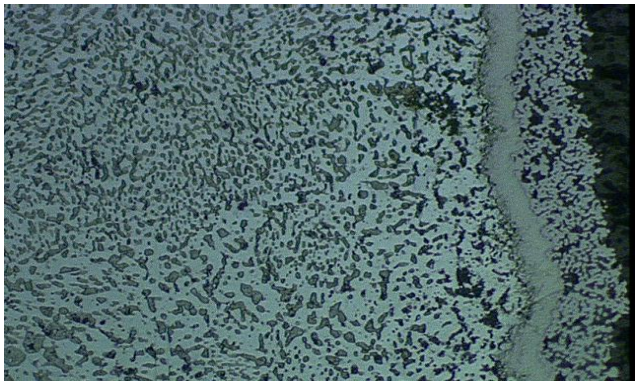
PWB41 - U46- SnPb Solder, SnPb Finish @200x



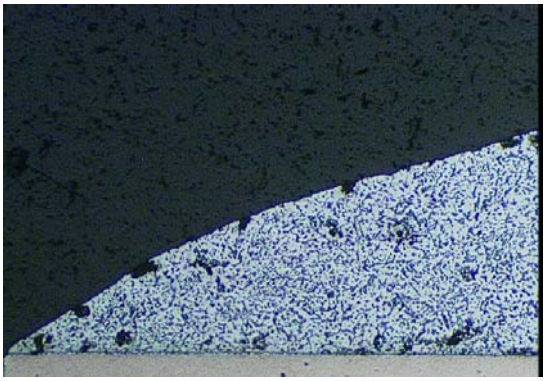
PWB41 - U46- SnPb Solder, SnPb Finish @200x



PWB41 - U46- SnPb Solder, SnPb Finish @50x

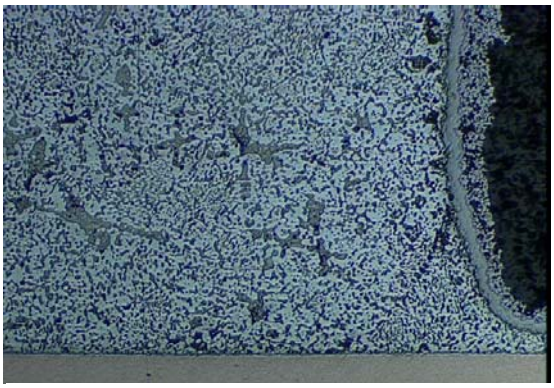


PWB41 - U46- SnPb Solder, SnPb Finish @200x

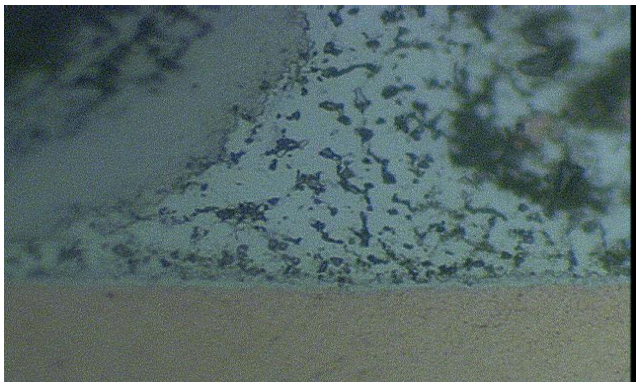


PWB41 - U46- SnPb Solder, SnPb Finish @100x

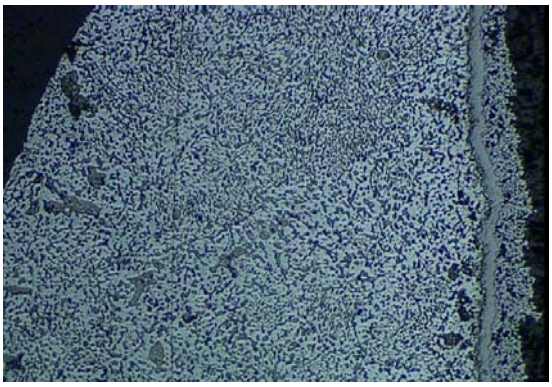
PWB41 - U46- SnPb Solder, SnPb Finish @500x



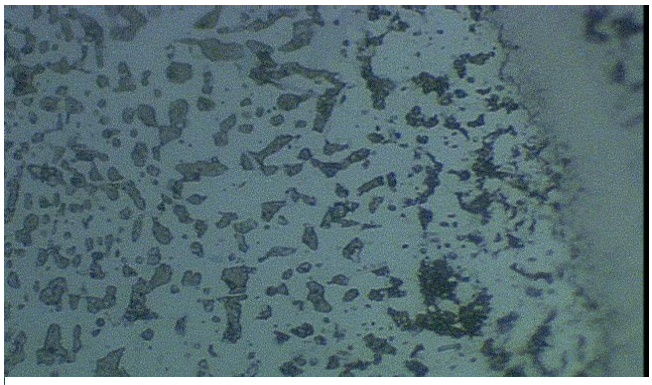
PWB41 - U46- SnPb Solder, SnPb Finish @100x



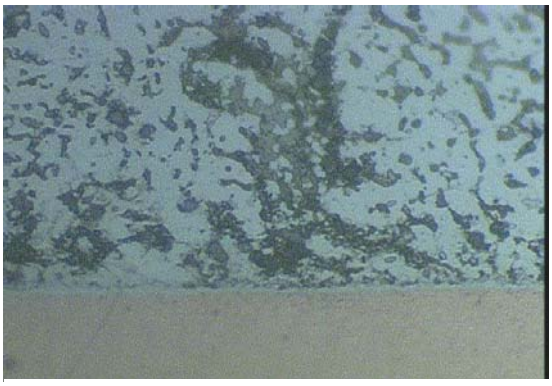
PWB41 - U46- SnPb Solder, SnPb Finish @500x



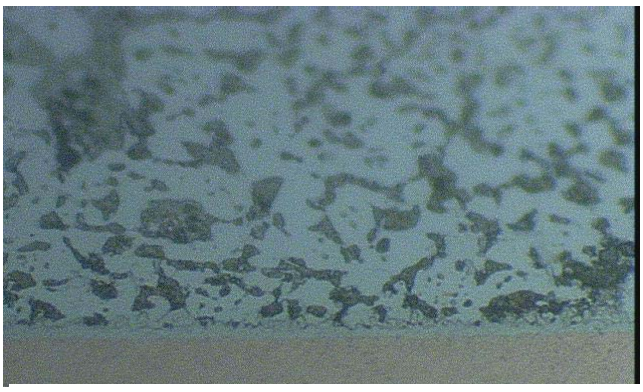
PWB41 - U46- SnPb Solder, SnPb Finish @100x



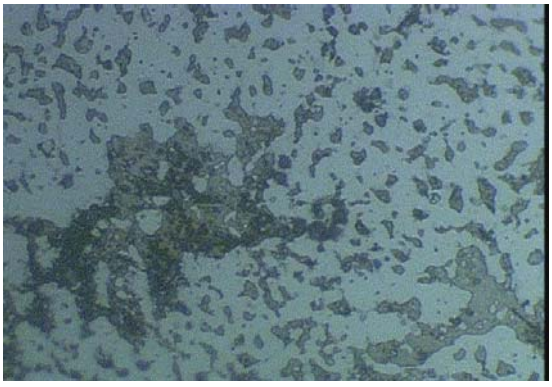
PWB41 - U46- SnPb Solder, SnPb Finish @500x



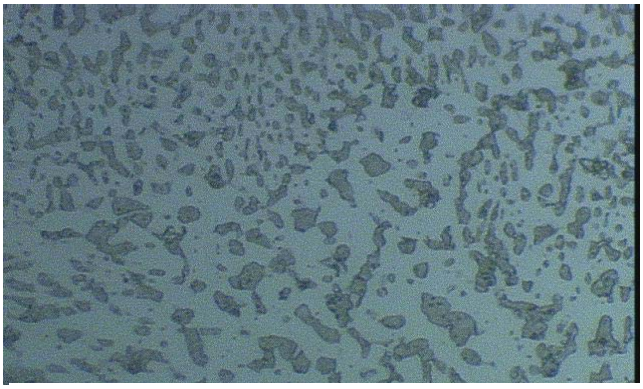
PWB41 - U46- SnPb Solder, SnPb Finish @500x



PWB41 - U46- SnPb Solder, SnPb Finish @500x

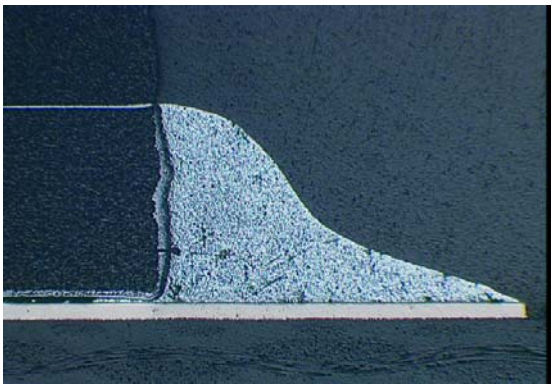


PWB41 - U46- SnPb Solder, SnPb Finish @500x

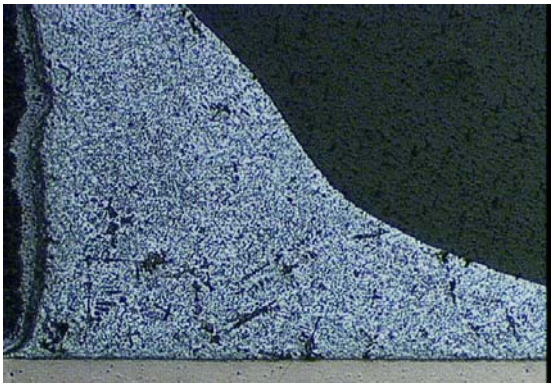


PWB41 - U46- SnPb Solder, SnPb Finish @500x

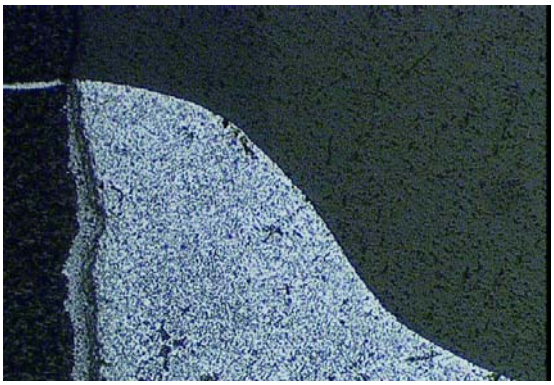
Right Side



PWB41 - U46- SnPb Solder, SnPb Finish @25x

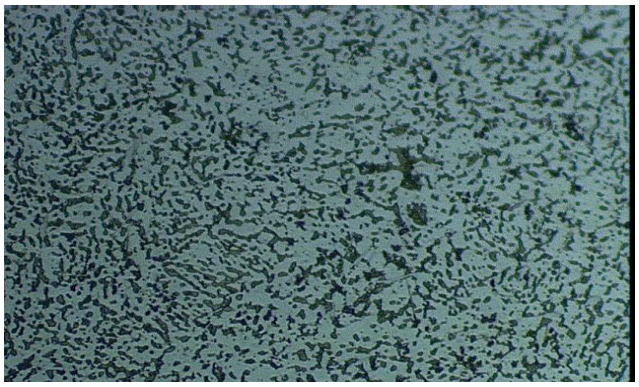


PWB41 - U46- SnPb Solder, SnPb Finish @50x

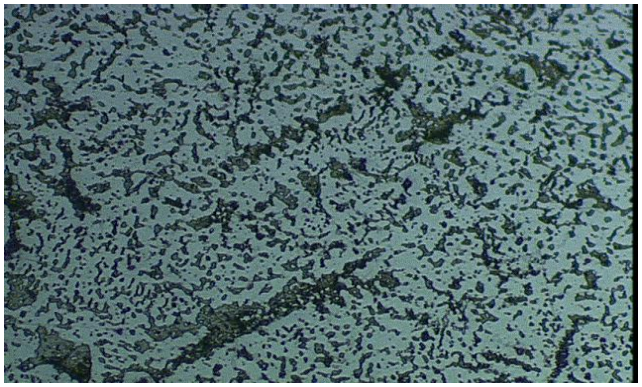


PWB41 - U46- SnPb Solder, SnPb Finish @50x

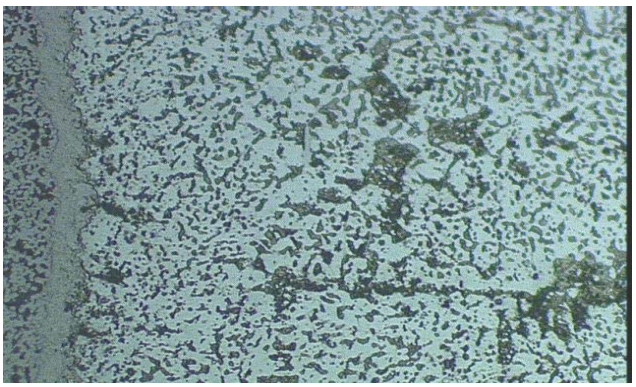
Right Side



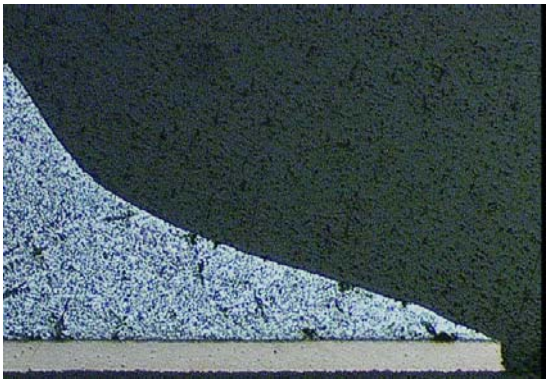
PWB41 - U46- SnPb Solder, SnPb Finish @200x



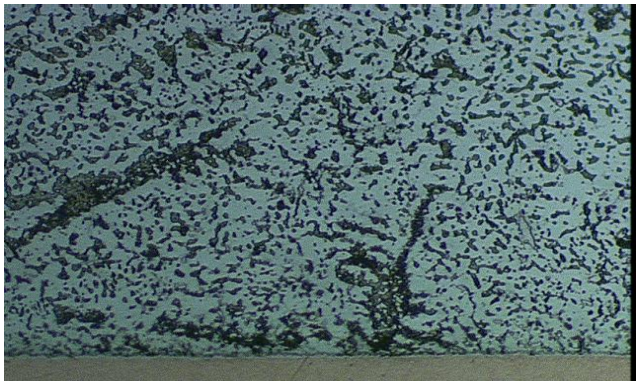
PWB41 - U46- SnPb Solder, SnPb Finish @200x



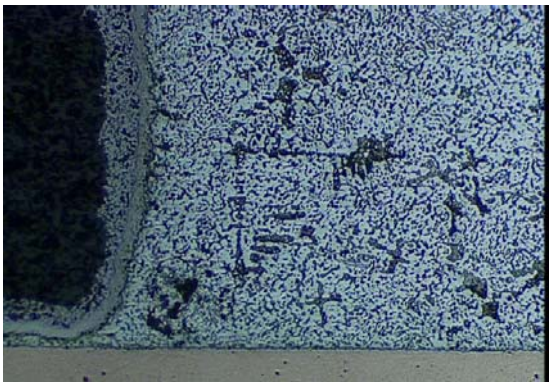
PWB41 - U46- SnPb Solder, SnPb Finish @200x



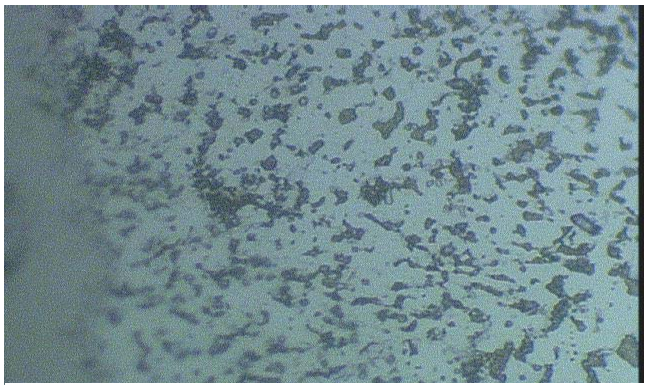
PWB41 - U46- SnPb Solder, SnPb Finish @50x



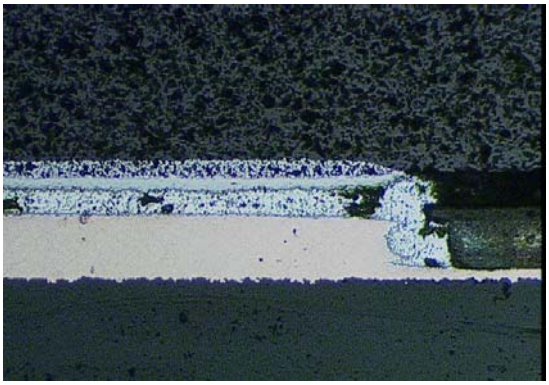
PWB41 - U46- SnPb Solder, SnPb Finish @200x



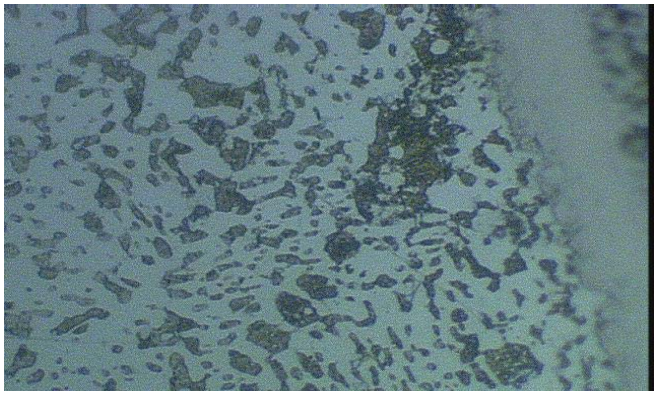
PWB41 - U46- SnPb Solder, SnPb Finish @100x



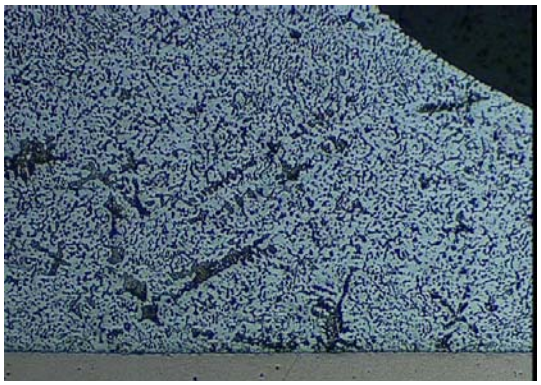
PWB41 - U46- SnPb Solder, SnPb Finish @500x



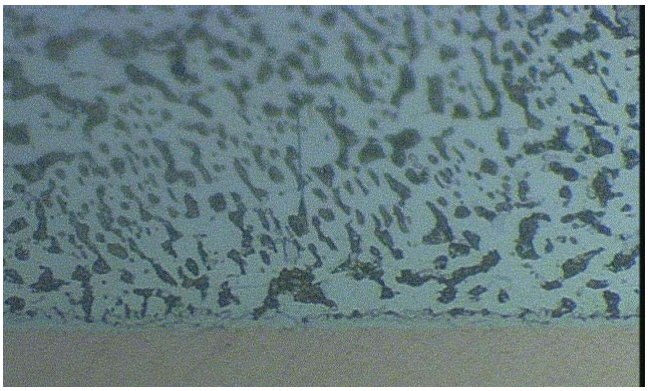
PWB41 - U46- SnPb Solder, SnPb Finish @100x



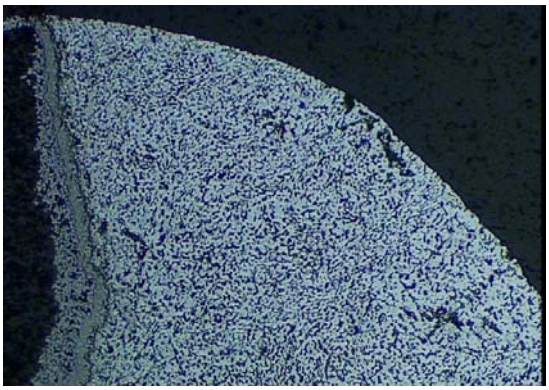
PWB41 - U46- SnPb Solder, SnPb Finish @500x



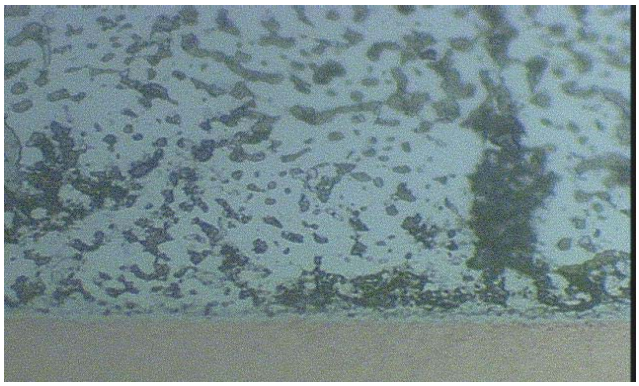
PWB41 - U46- SnPb Solder, SnPb Finish @100x



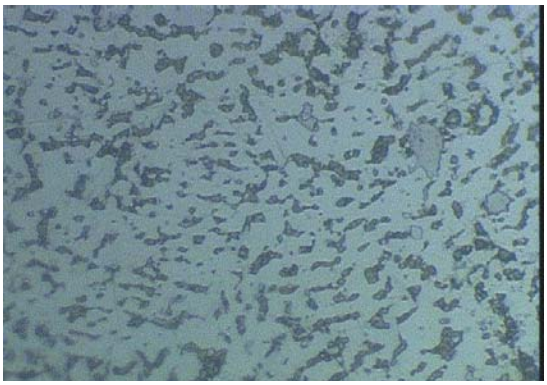
PWB41 - U46- SnPb Solder, SnPb Finish @500x



PWB41 - U46- SnPb Solder, SnPb Finish @100x



PWB41 - U46- SnPb Solder, SnPb Finish @500x

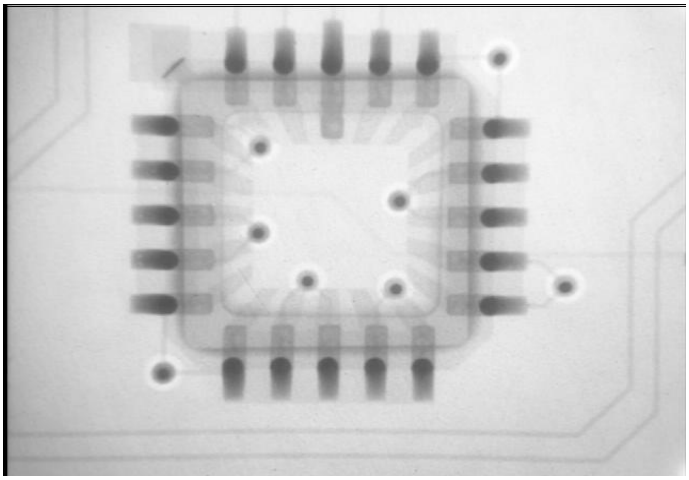


PWB41 - U46- SnPb Solder, SnPb Finish @500x

PWB41 - U46- SnPb Solder, SnPb Finish @500x

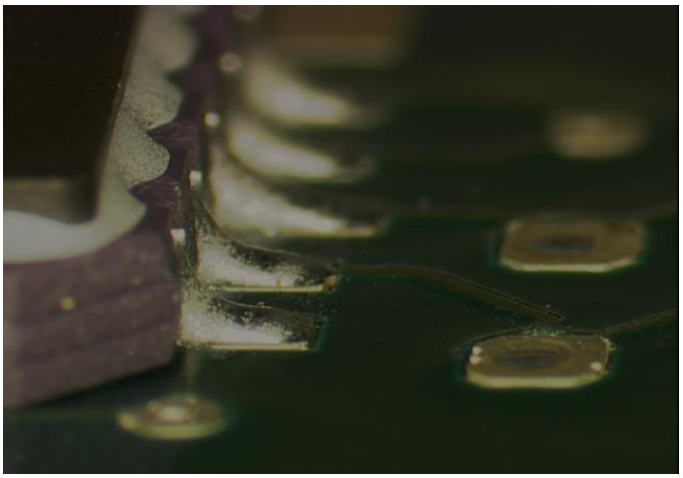
Part # U46

X-Ray

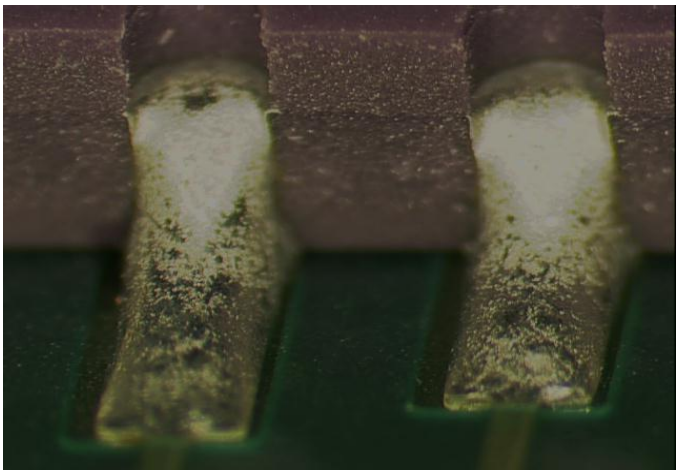


PWB41 - U46- SnPb Solder, SnPb Finish, X-Ray

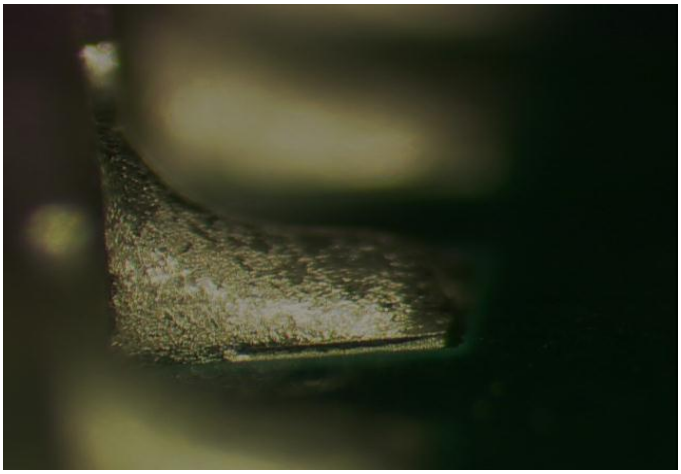
Microscope



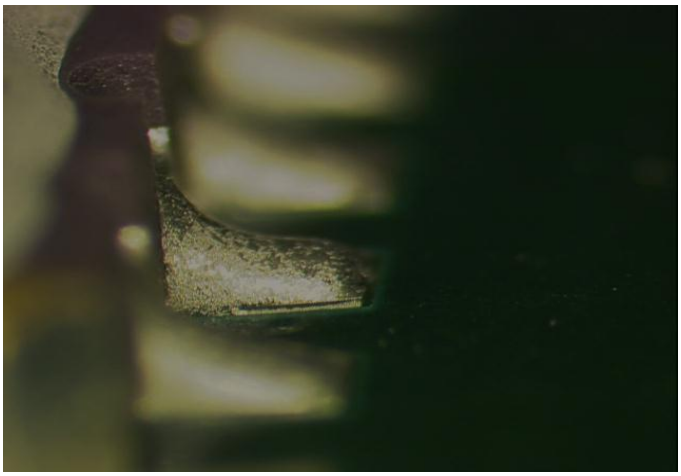
PWB41 - U46- SnPb Solder, SnPb Finish @13x



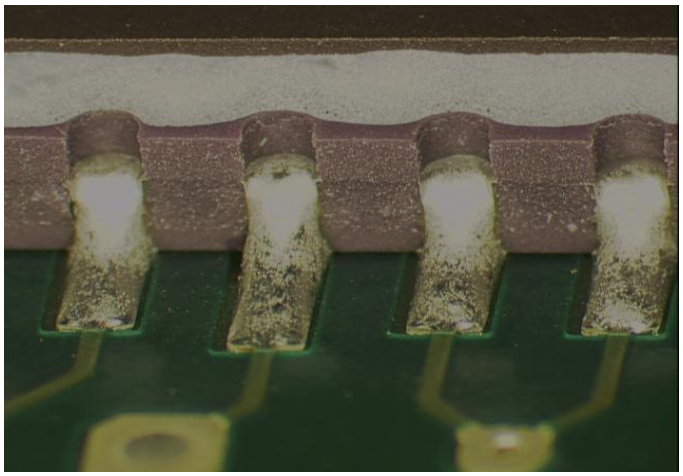
PWB41 - U46- SnPb Solder, SnPb Finish @26x



PWB41 - U46- SnPb Solder, SnPb Finish @36x



PWB41 - U46- SnPb Solder, SnPb Finish @21x



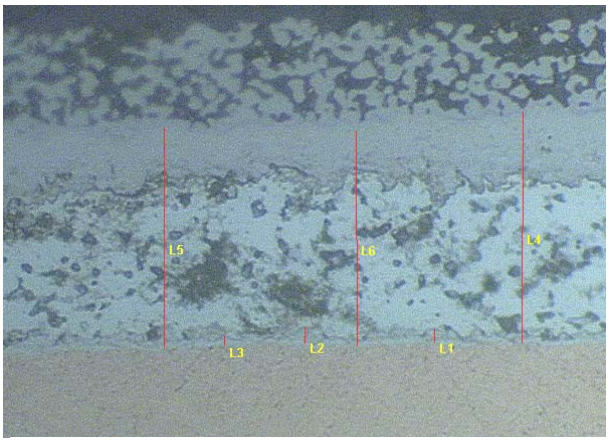
PWB41 - U46- SnPb Solder, SnPb Finish @13x

Part # U46

Left

Category	Min. Lead/Pad Distance (in.)	Intermetallic (in.)
Meas 1	0.001462	0.0000818
Meas 2	0.0013976	0.0001052
Meas 3	0.0013567	0.0000584
Avg	0.0014054	0.0000818

**Note: Intermetallic measurement is shorter lines

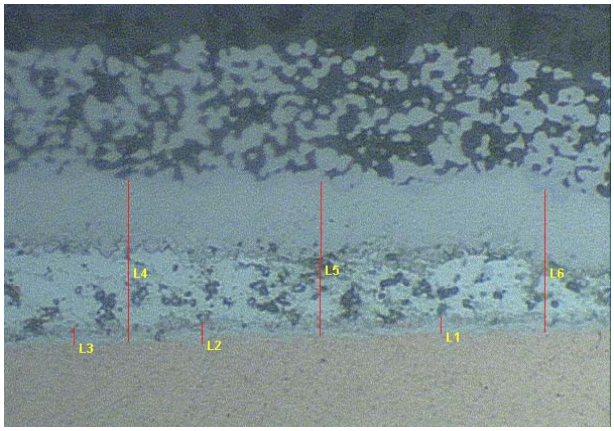


PWB41 - U46- SnPb Solder, SnPb Finish

Right

Category	Min. Lead/Pad Distance (in.)	Intermetallic (in.)
Meas 1	0.0010292	0.0001052
Meas 2	0.0009766	0.0001403
Meas 3	0.0009005	0.0001169
Avg	0.0009688	0.0001208

**Note: Intermetallic measurement is shorter lines

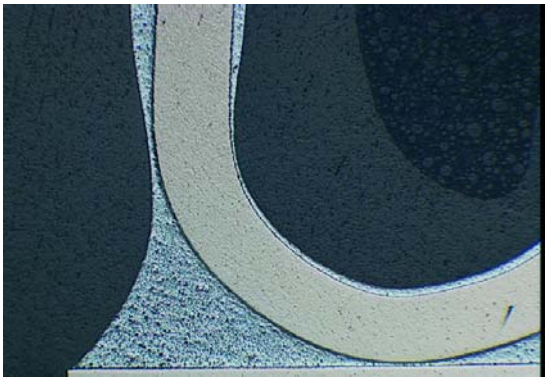


PWB41 - U46- SnPb Solder, SnPb Finish

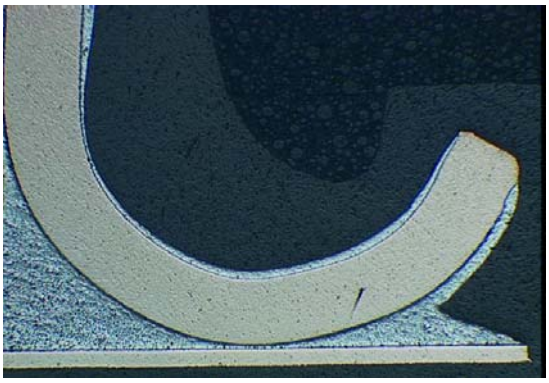
U47

Left Side

PWB41 - U47- SnPb Solder, Sn Finish @25x

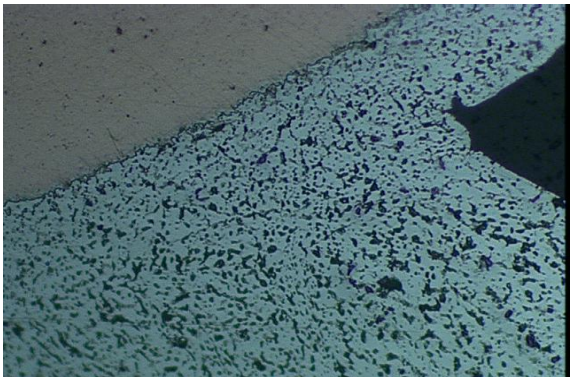


PWB41 - U47- SnPb Solder, Sn Finish @25x

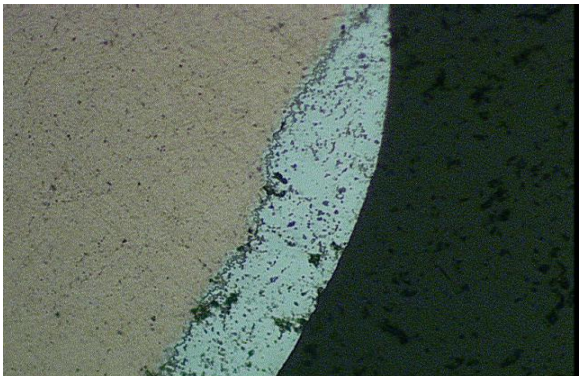


PWB41 - U47- SnPb Solder, Sn Finish @25x

Left Side

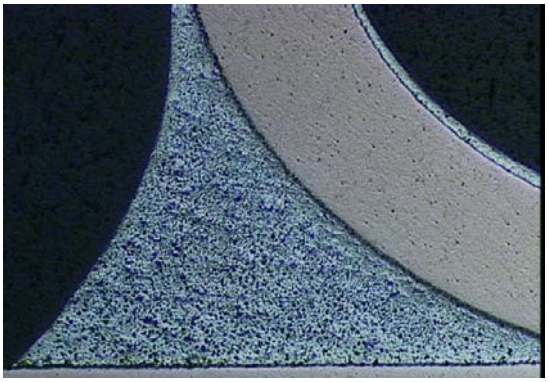


PWB41 - U47- SnPb Solder, Sn Finish @200x

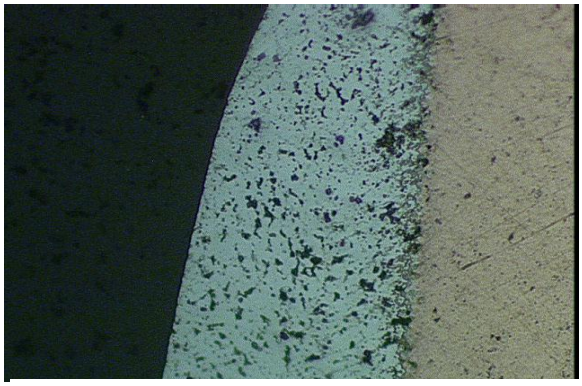


PWB41 - U47- SnPb Solder, Sn Finish @200x

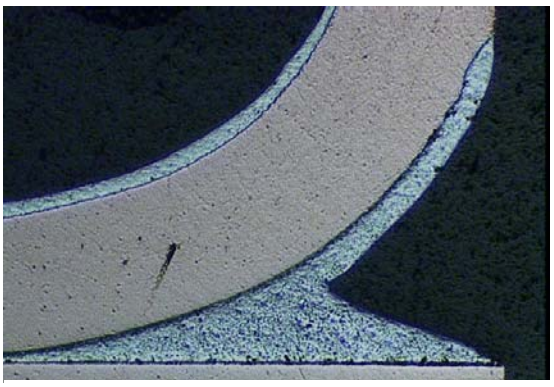
PWB41 - U47- SnPb Solder, Sn Finish @200x



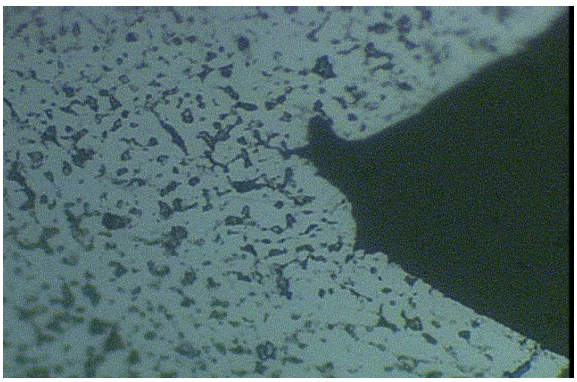
PWB41 - U47- SnPb Solder, Sn Finish @50x



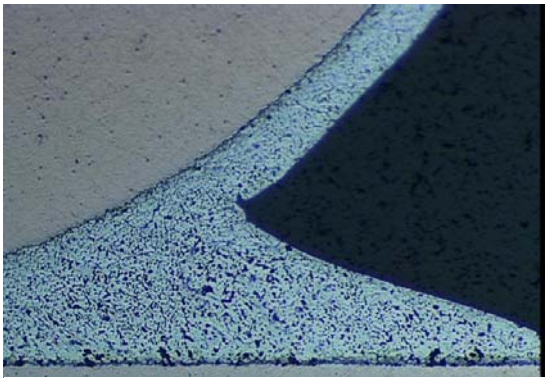
PWB41 - U47- SnPb Solder, Sn Finish @200x



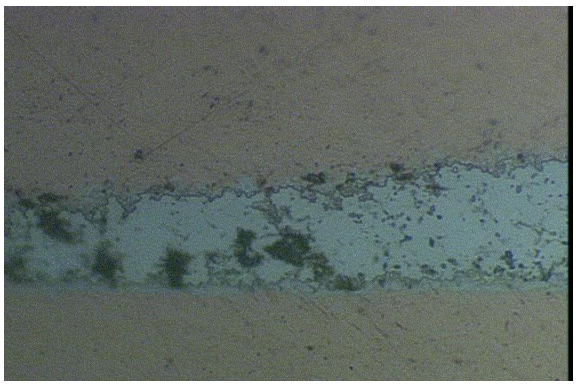
PWB41 - U47- SnPb Solder, Sn Finish @50x



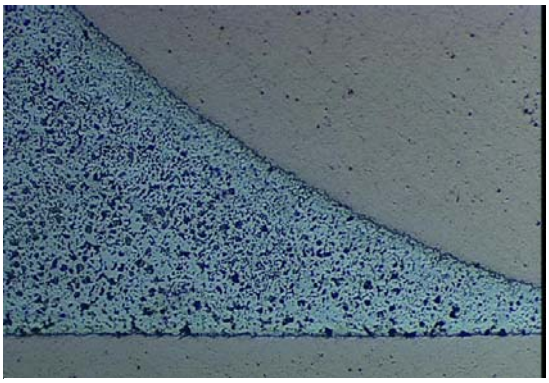
PWB41 - U47- SnPb Solder, Sn Finish @500x



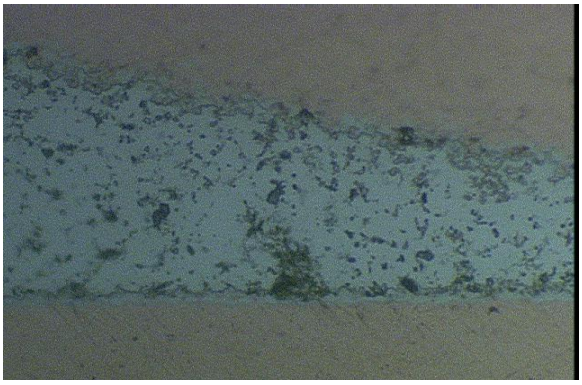
PWB41 - U47- SnPb Solder, Sn Finish @100x



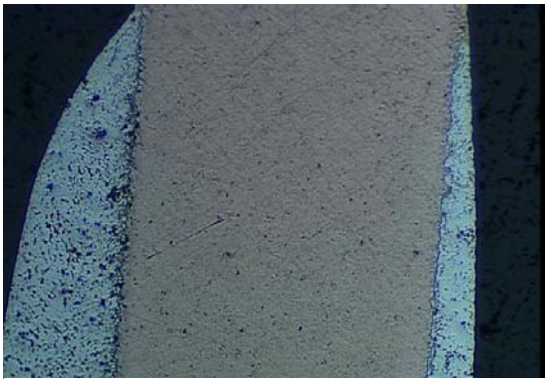
PWB41 - U47- SnPb Solder, Sn Finish @500x



PWB41 - U47- SnPb Solder, Sn Finish @100x



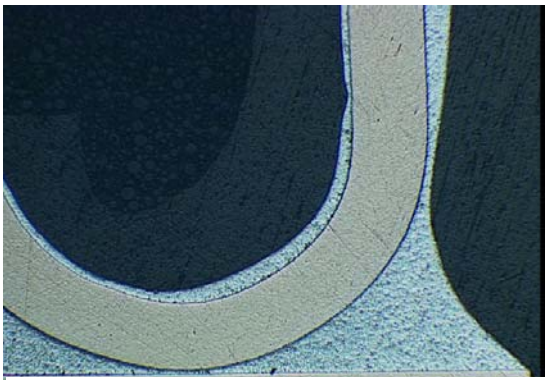
PWB41 - U47- SnPb Solder, Sn Finish @500x



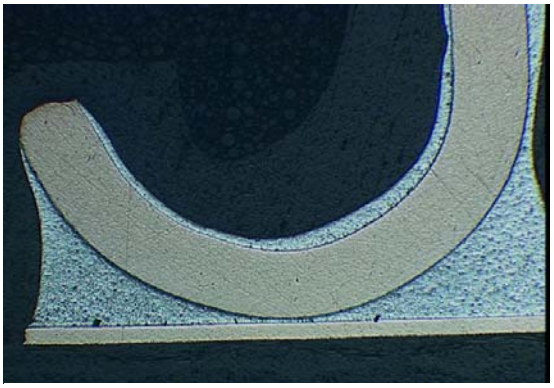
PWB41 - U47- SnPb Solder, Sn Finish @100x

Right Side

PWB41 - U47- SnPb Solder, Sn Finish @25x

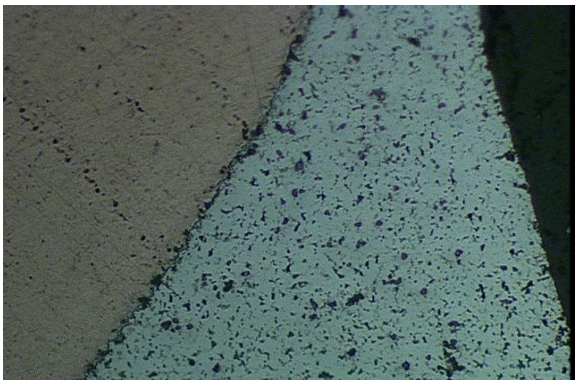


PWB41 - U47- SnPb Solder, Sn Finish @25x



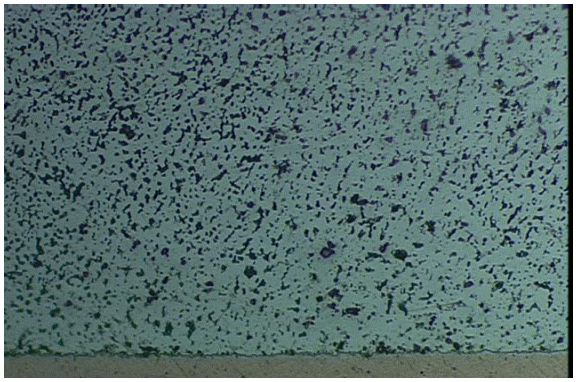
PWB41 - U47- SnPb Solder, Sn Finish @25x

Right Side

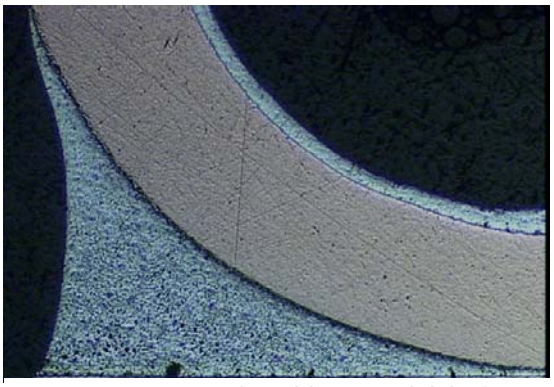


PWB41 - U47- SnPb Solder, Sn Finish @200x

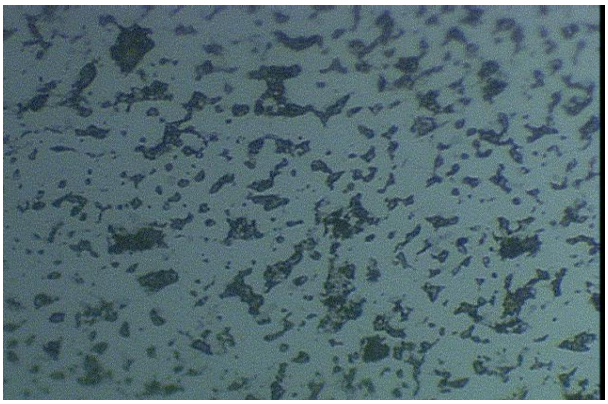
PWB41 - U47- SnPb Solder, Sn Finish @200x



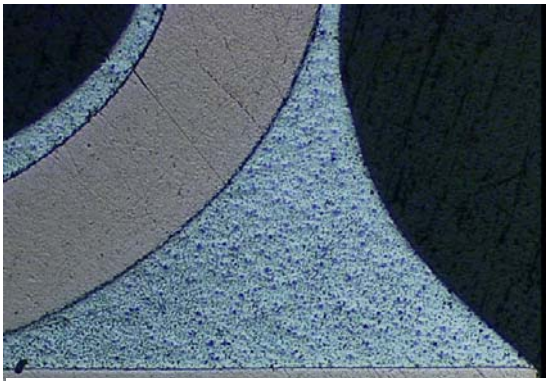
PWB41 - U47- SnPb Solder, Sn Finish @200x



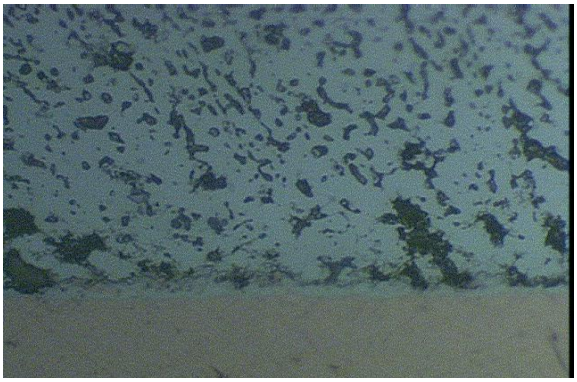
PWB41 - U47- SnPb Solder, Sn Finish @50x



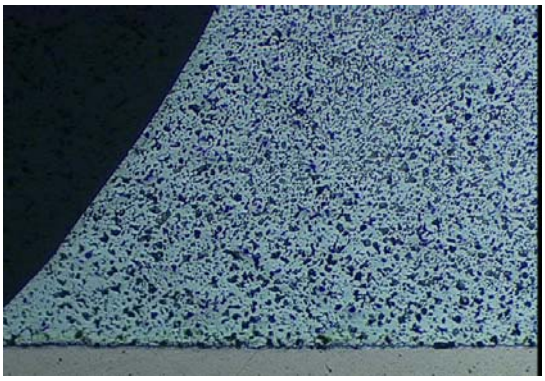
PWB41 - U47- SnPb Solder, Sn Finish @500x



PWB41 - U47- SnPb Solder, Sn Finish @50x

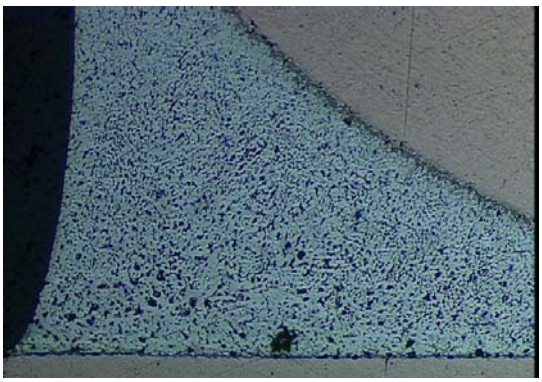


PWB41 - U47- SnPb Solder, Sn Finish @500x

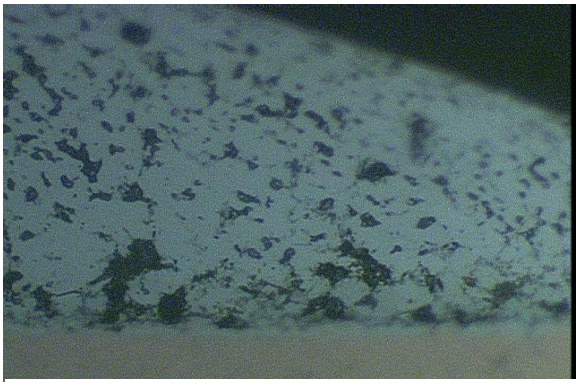


PWB41 - U47- SnPb Solder, Sn Finish @100x

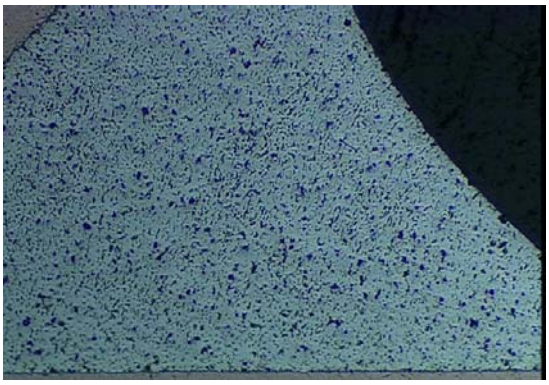
PWB41 - U47- SnPb Solder, Sn Finish @500x



PWB41 - U47- SnPb Solder, Sn Finish @100x



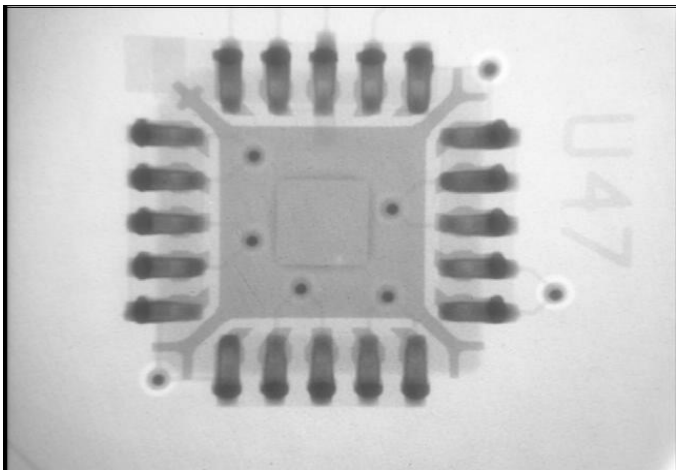
PWB41 - U47- SnPb Solder, Sn Finish @500x



PWB41 - U47- SnPb Solder, Sn Finish @100x

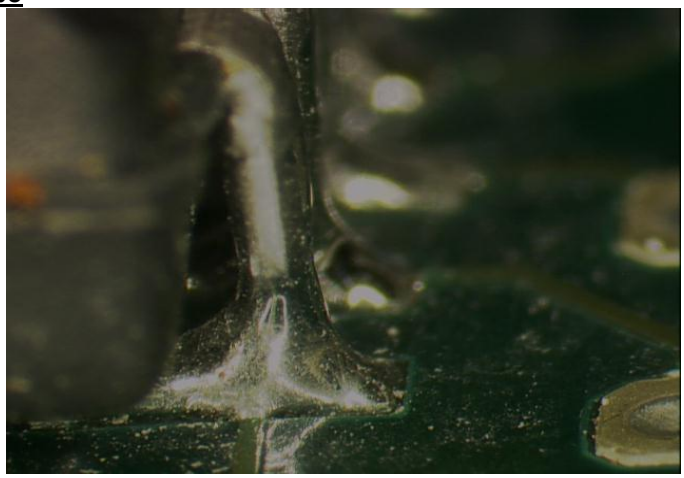
Part # U47

X-Ray

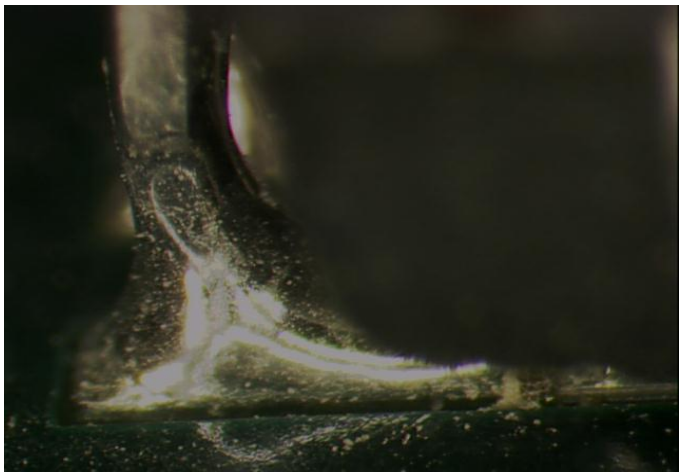


PWB41 - U47- SnPb Solder, Sn Finish, X-Ray

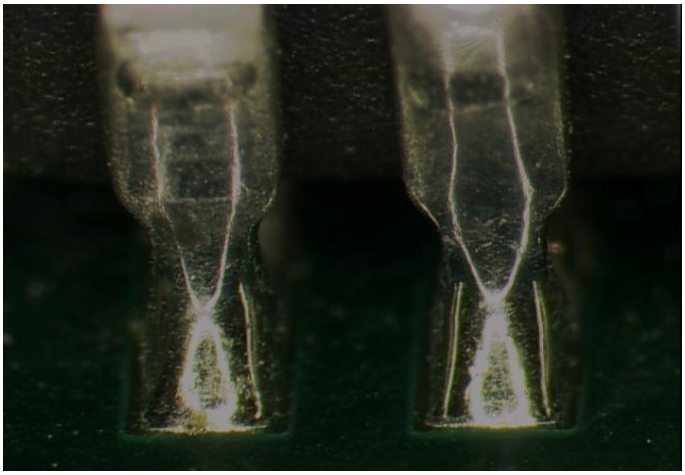
Microscope



PWB41 - U47- SnPb Solder, Sn Finish @17x



PWB41 - U47- SnPb Solder, Sn Finish @31x



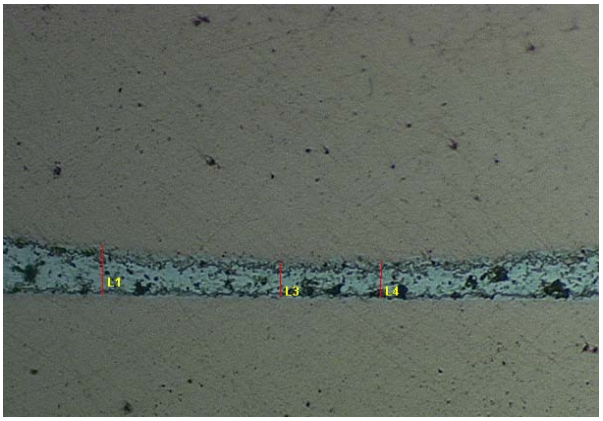
PWB41 - U47- SnPb Solder, Sn Finish @21x

Part # U47

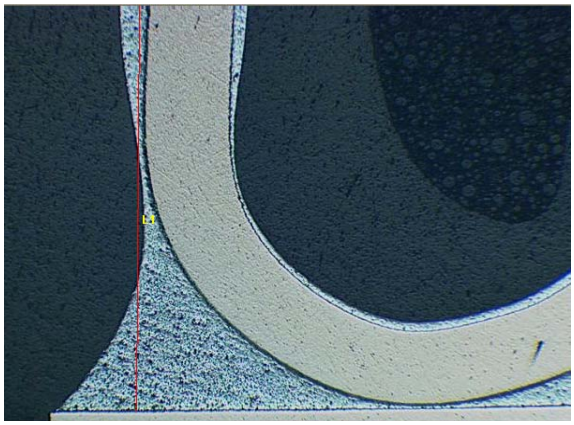
Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0008115
Meas 2	0.0005797
Meas 3	0.0005798
Avg	0.0006570

Toe
>0.0539091

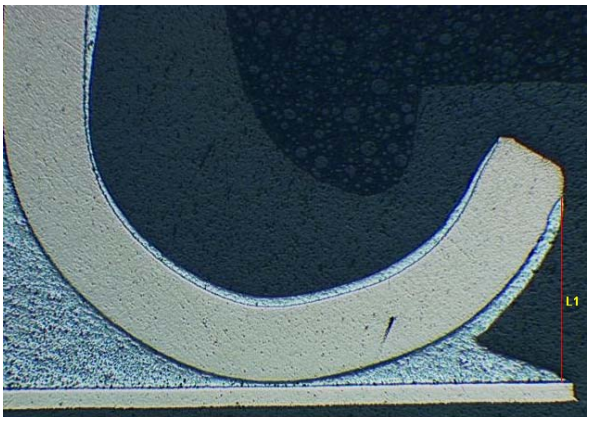


PWB41 - U47- Min. Lead/Pad Distance



PWB41 - U47- Toe

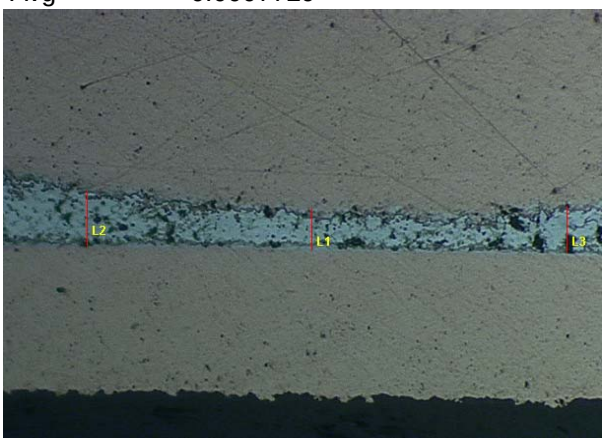
Heel Fillet (in.)
0.0239080



PWB41 - U47- Heel Fillet

Right

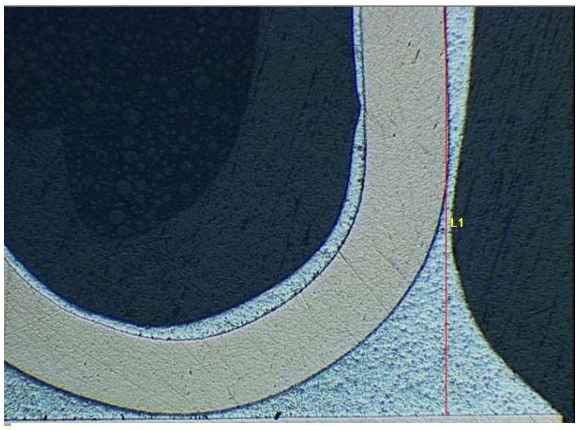
Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0006666
Meas 2	0.0008985
Meas 3	0.0007536
Avg	0.0007729



PWB41 - U47- Min. Lead/Pad Distance

Toe

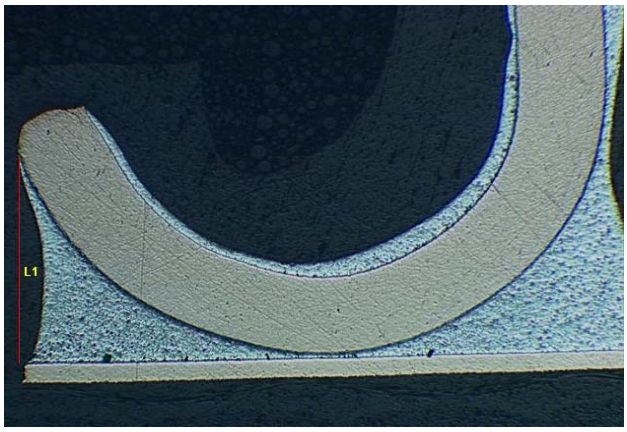
> .0537931



PWB41 - U47- Toe

Heel Fillet (in.)

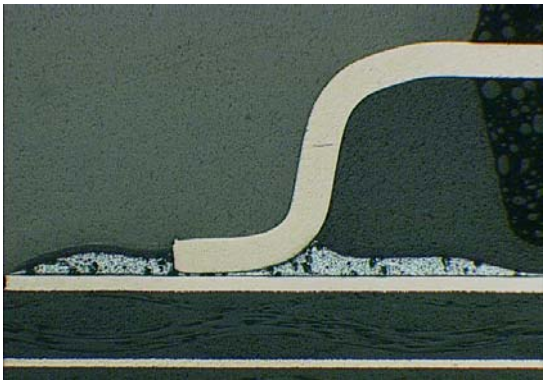
0.0265517



PWB41 - U47- Heel Fillet

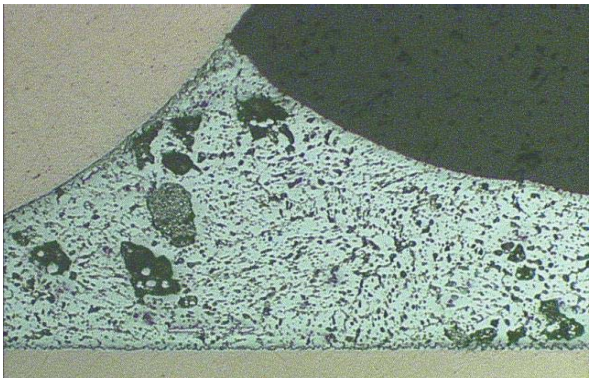
U57

Left Side

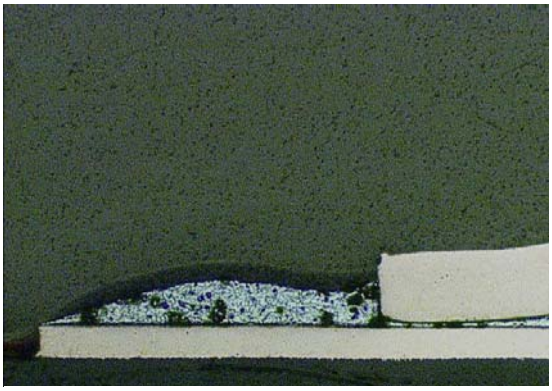


PWB41 - U57- SnPb Solder, NiPdAu Finish @25x

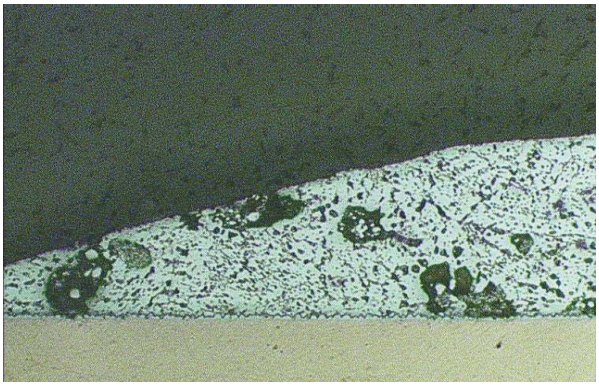
Left Side



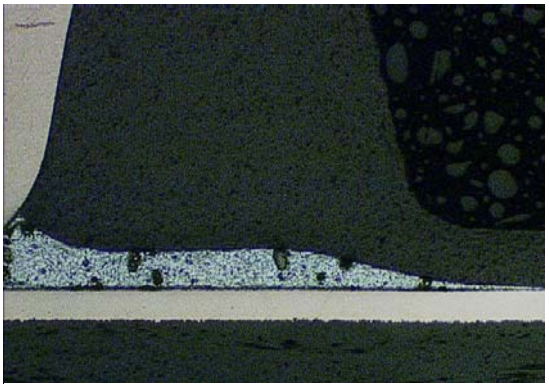
PWB41 - U57- SnPb Solder, NiPdAu Finish @200x



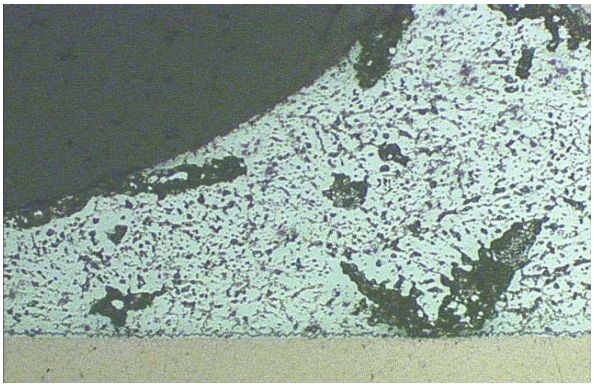
PWB41 - U57- SnPb Solder, NiPdAu Finish @50x



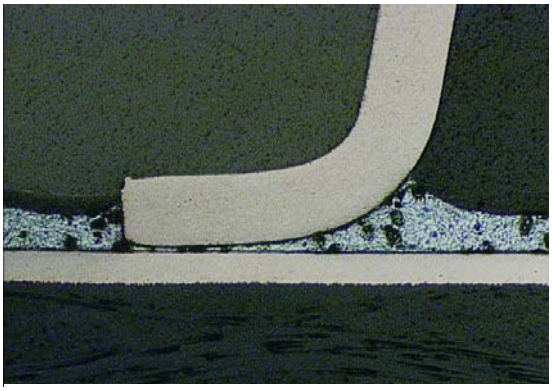
PWB41 - U57- SnPb Solder, NiPdAu Finish @200x



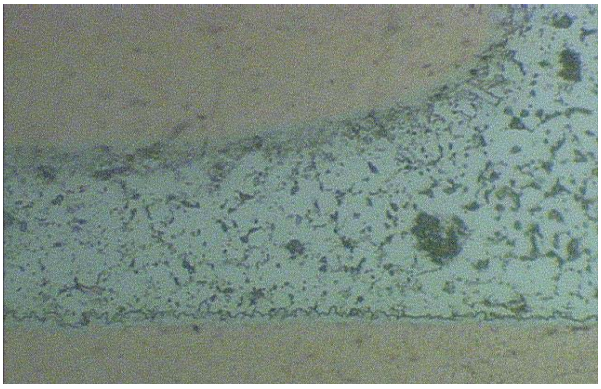
PWB41 - U57- SnPb Solder, NiPdAu Finish @50x



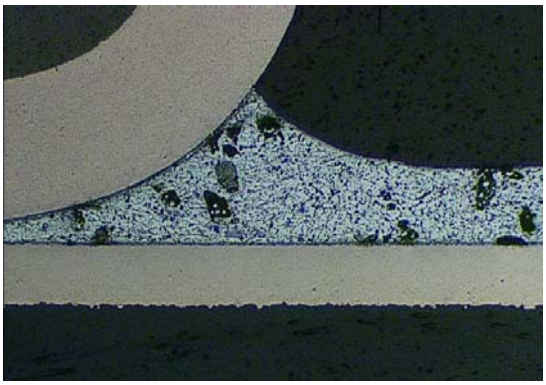
PWB41 - U57- SnPb Solder, NiPdAu Finish @200x



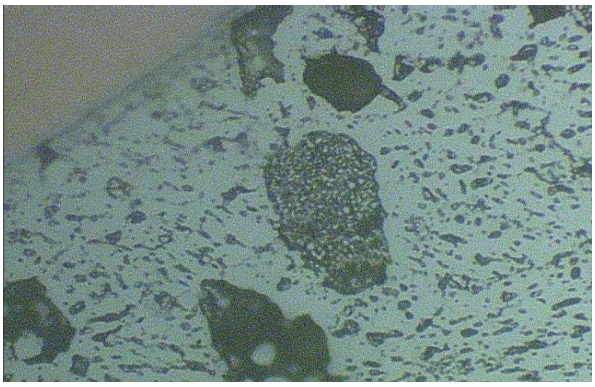
PWB41 - U57- SnPb Solder, NiPdAu Finish @50x



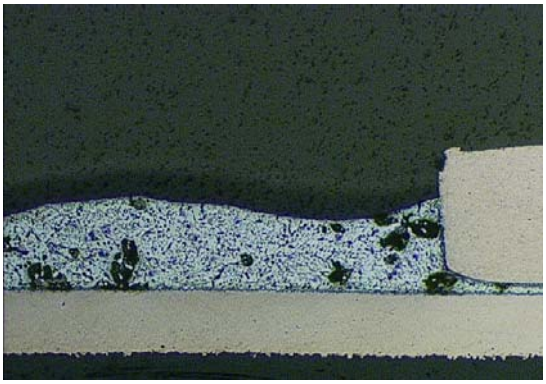
PWB41 - U57- SnPb Solder, NiPdAu Finish @500x



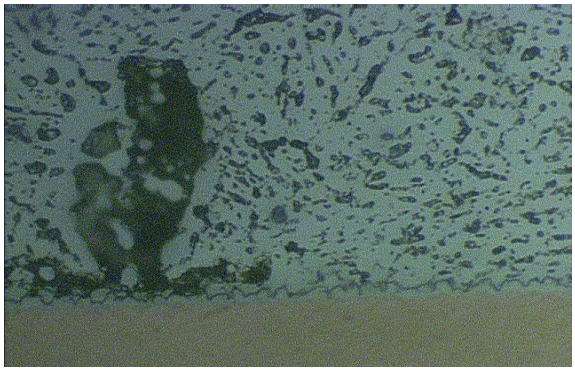
PWB41 - U57- SnPb Solder, NiPdAu Finish @100x



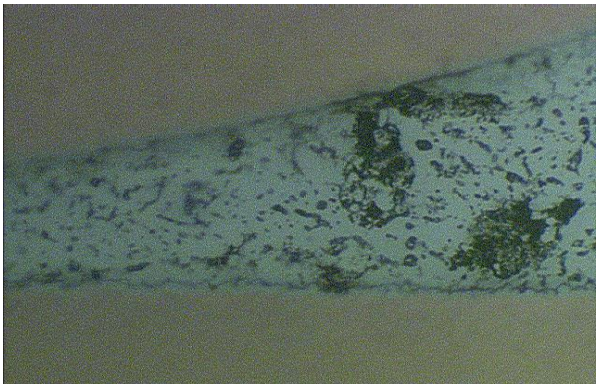
PWB41 - U57- SnPb Solder, NiPdAu Finish @500x



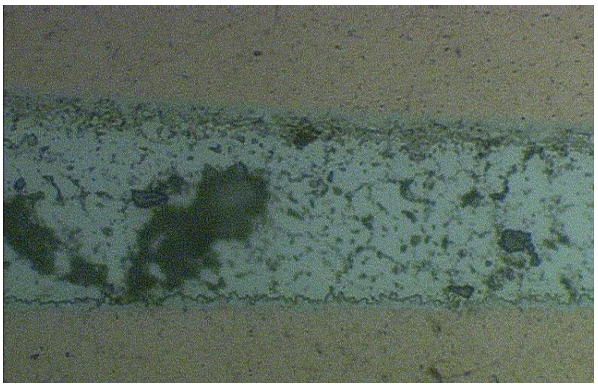
PWB41 - U57- SnPb Solder, NiPdAu Finish @100x



PWB41 - U57- SnPb Solder, NiPdAu Finish @500x

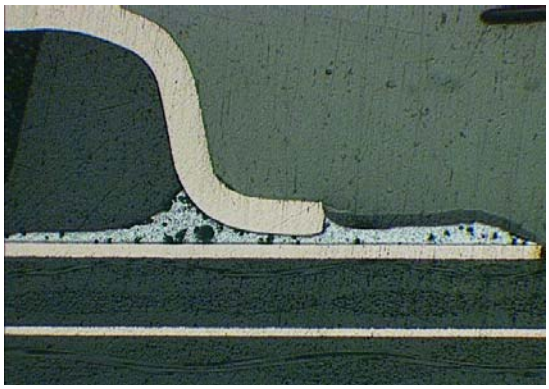


PWB41 - U57- SnPb Solder, NiPdAu Finish @500x



PWB41 - U57- SnPb Solder, NiPdAu Finish @500x

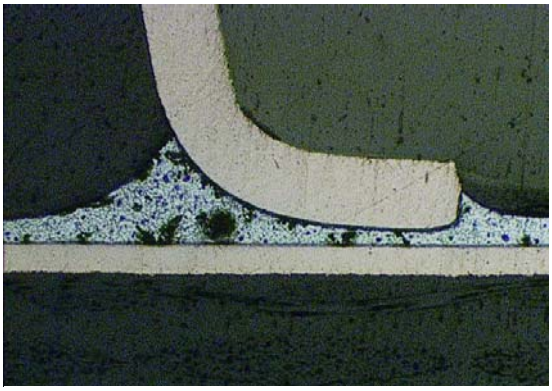
Right Side



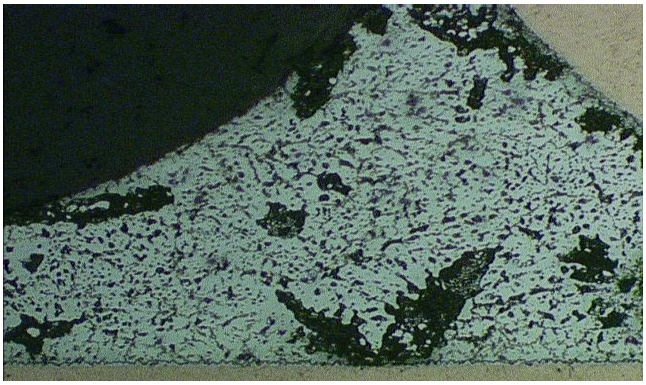
PWB41 - U57- SnPb Solder, NiPdAu Finish @25x

Right Side

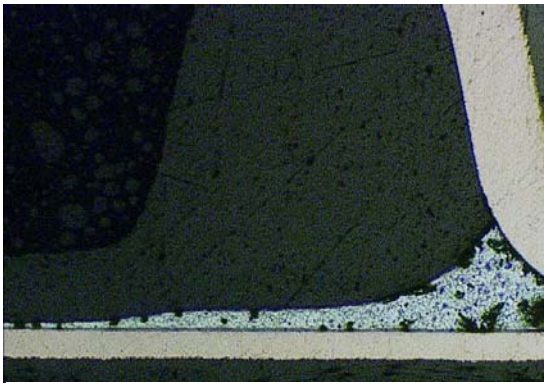
PWB41 - U57- SnPb Solder, NiPdAu Finish @200x



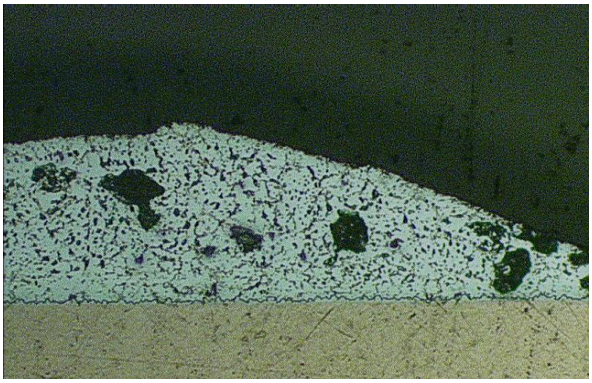
PWB41 - U57- SnPb Solder, NiPdAu Finish @50x



PWB41 - U57- SnPb Solder, NiPdAu Finish @200x

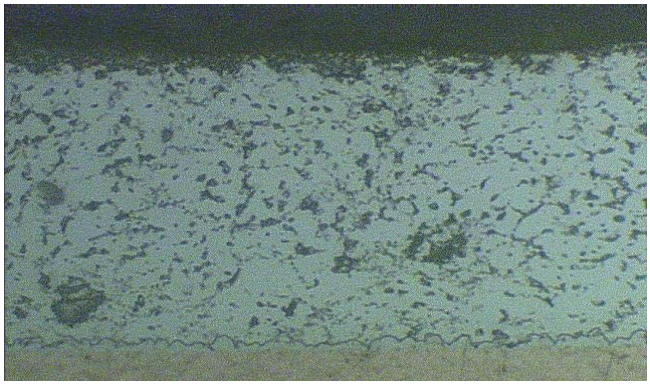


PWB41 - U57- SnPb Solder, NiPdAu Finish @50x

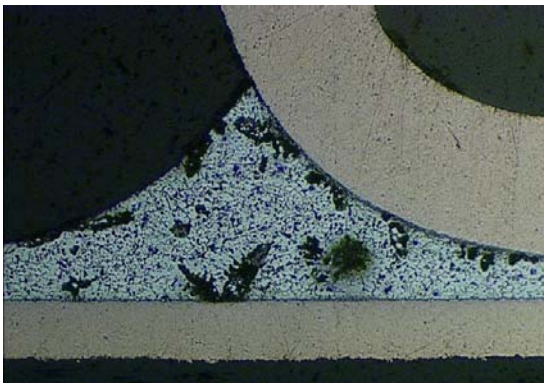


PWB41 - U57- SnPb Solder, NiPdAu Finish @200x

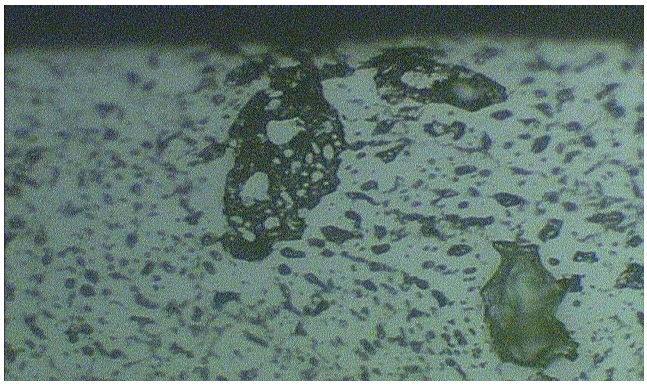
PWB41 - U57- SnPb Solder, NiPdAu Finish @50x



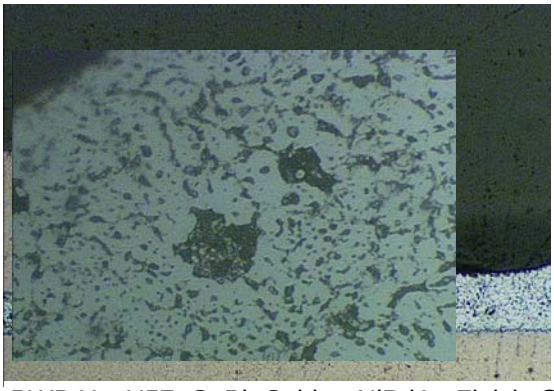
PWB41 - U57- SnPb Solder, NiPdAu Finish @500x



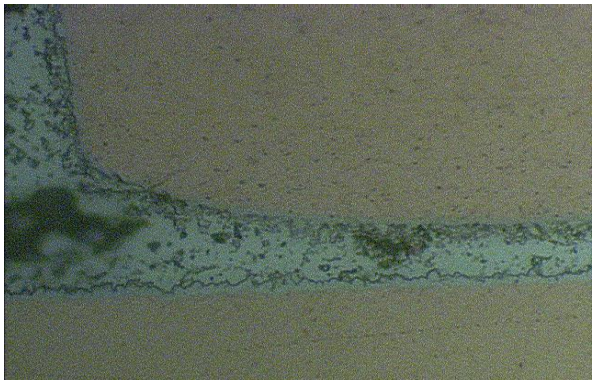
PWB41 - U57- SnPb Solder, NiPdAu Finish @100x



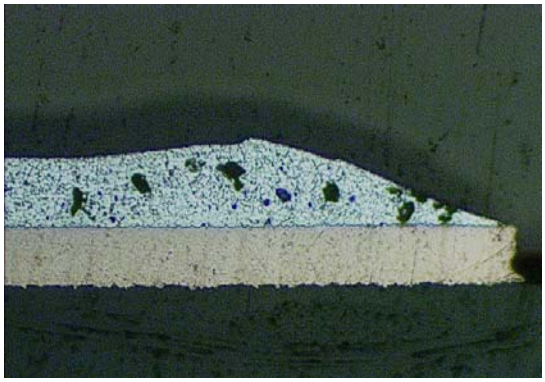
PWB41 - U57- SnPb Solder, NiPdAu Finish @500x



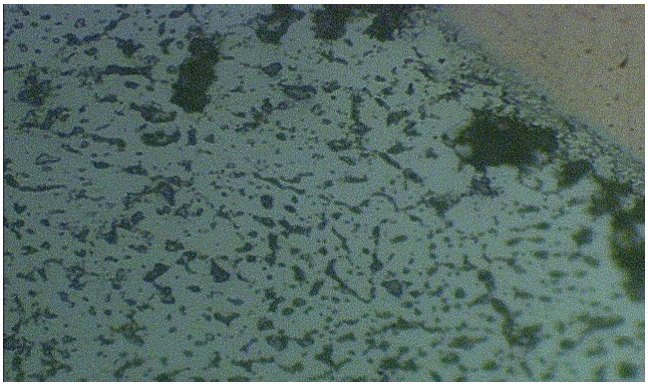
PWB41 - U57- SnPb Solder, NiPdAu Finish @100x



PWB41 - U57- SnPb Solder, NiPdAu Finish @500x



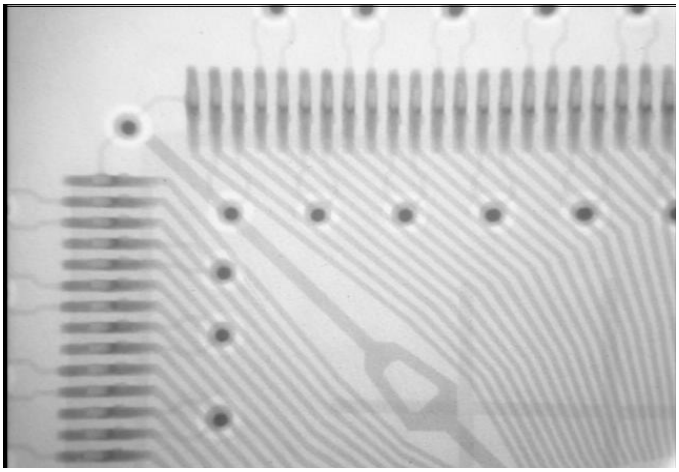
PWB41 - U57- SnPb Solder, NiPdAu Finish @100x



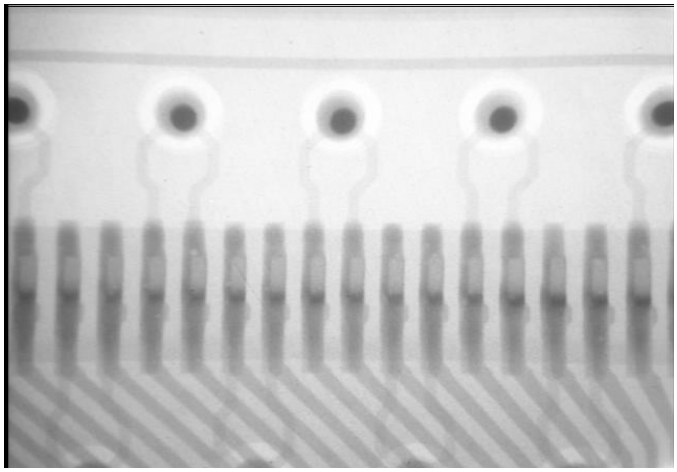
PWB41 - U57- SnPb Solder, NiPdAu Finish @500x

Part # U57

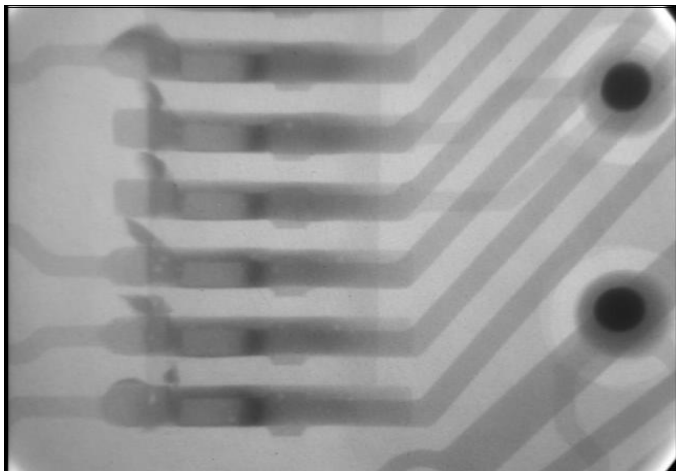
X-Ray



PWB41 - U57- SnPb Solder, NiPdAu Finish, X-Ray

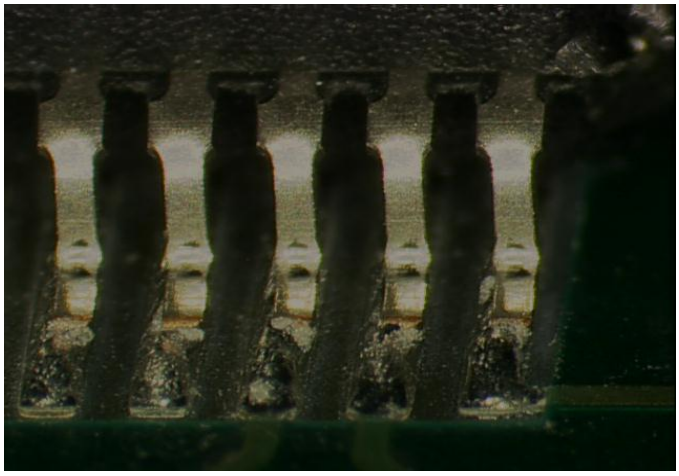


PWB41 - U57- SnPb Solder, NiPdAu Finish, X-Ray

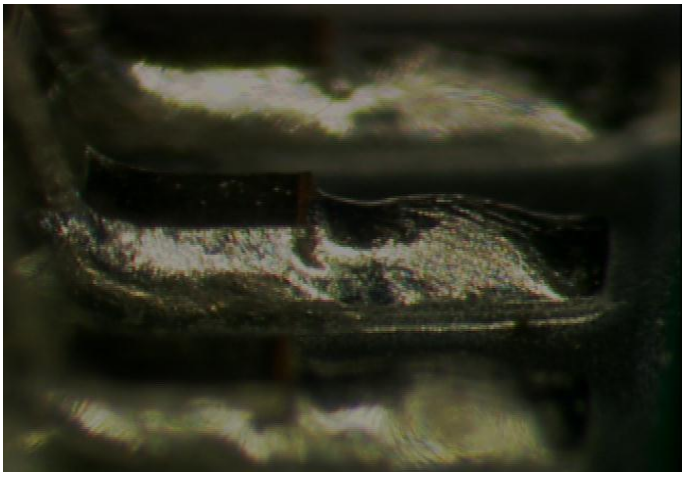


PWB41 - U57- SnPb Solder, NiPdAu Finish, X-Ray

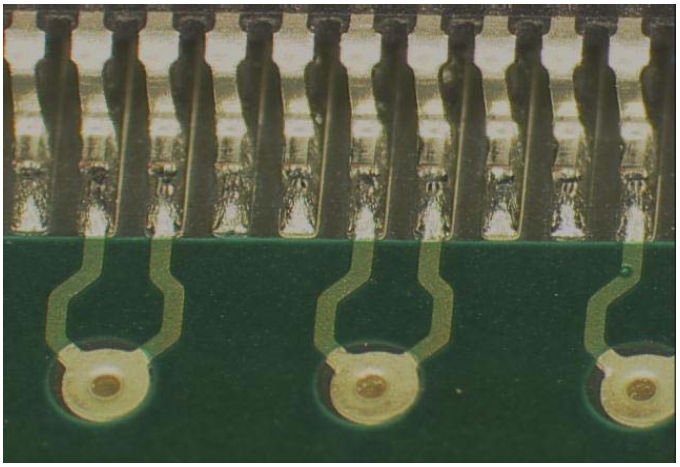
Microscope



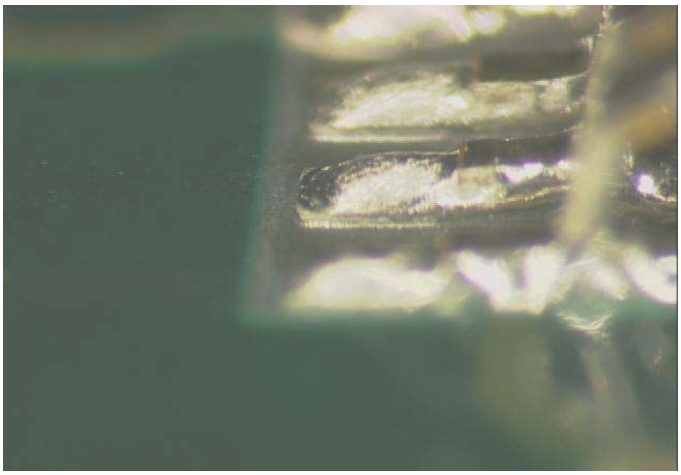
PWB41 - U57- SnPb Solder, NiPdAu Finish @17x



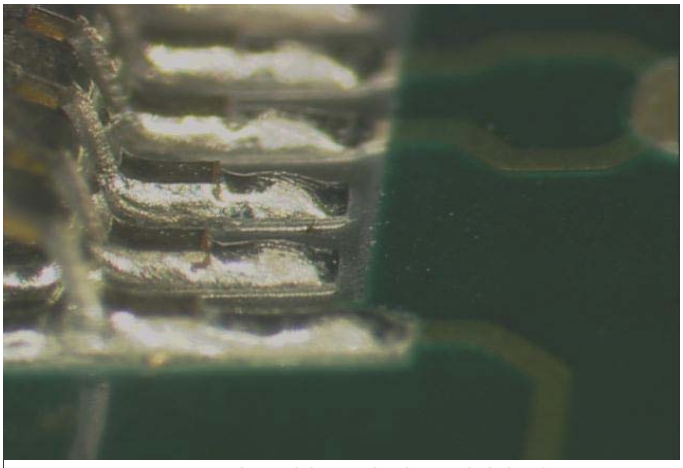
PWB41 - U57- SnPb Solder, NiPdAu Finish @55x



PWB41 - U57- SnPb Solder, NiPdAu Finish @13x



PWB41 - U57- SnPb Solder, NiPdAu Finish @30x



PWB41 - U57- SnPb Solder, NiPdAu Finish @25x

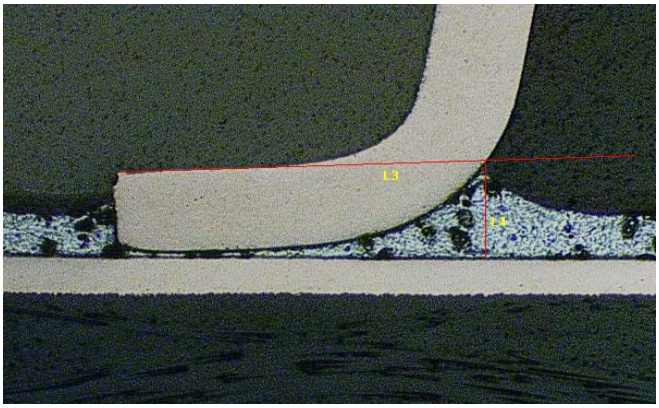
Part # U57

Left

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0004912
Meas 2	0.0006081
Meas 3	0.0005205
Avg	0.0005399

Min. Required Heel Fillet (in.)
0.0059537

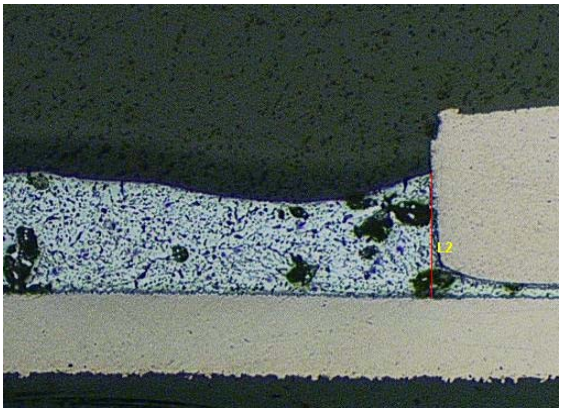
PWB41 - U57- Min. Lead/Pad Distance



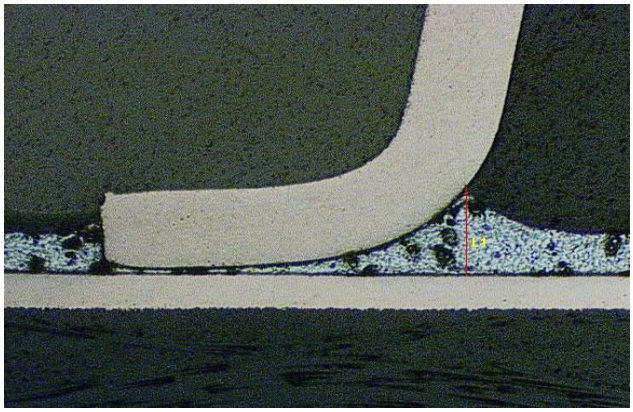
PWB41 - U57- Min. Required Heel Fillet

Toe (in.)
0.0036127

Heel Fillet (in.)
0.0059537



PWB41 - U57- Toe

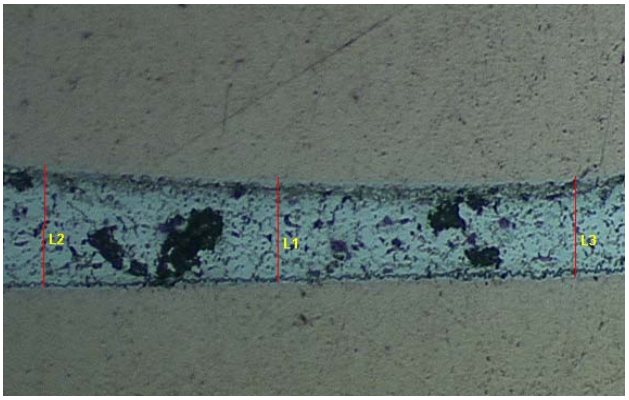


PWB41 - U57- Heel Fillet

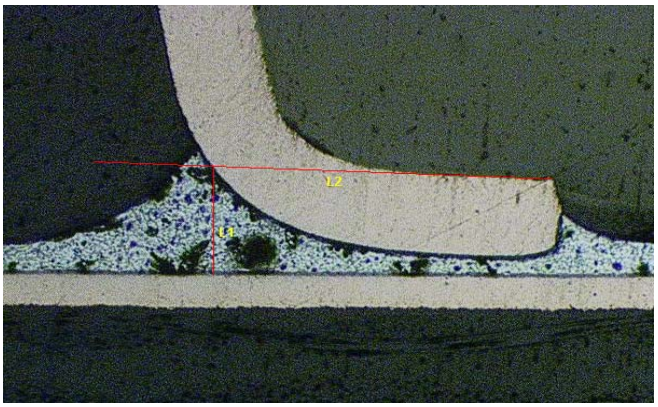
Right

Category	Min. Lead/Pad Distance (in.)
Meas 1	0.0014492
Meas 2	0.0016957
Meas 3	0.0013913
Avg	0.0015121

Min. Required Heel Fillet (in.)
0.0069364



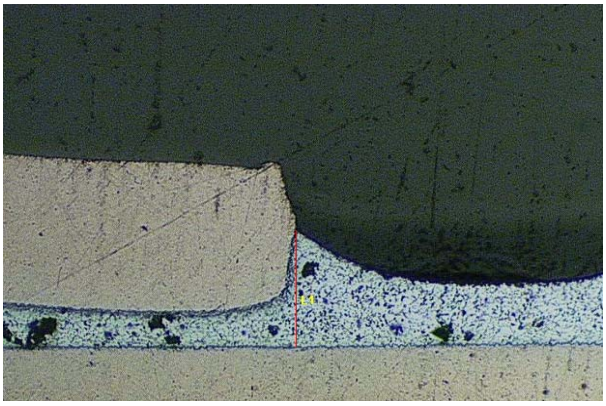
PWB41 - U57- Min. Lead/Pad Distance



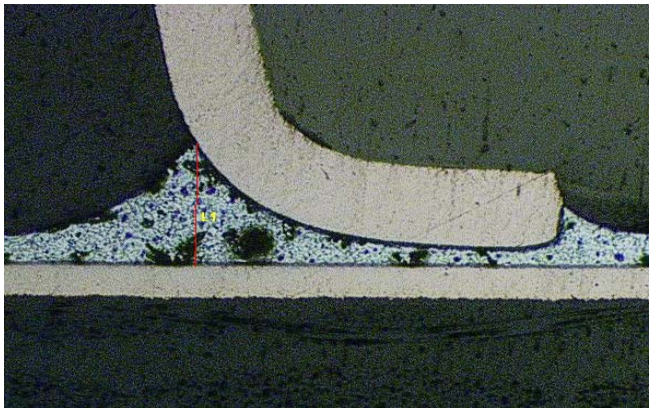
PWB41 - U57- Min. Required Heel Fillet

Toe (in.)
0.0039884

Heel Fillet (in.)
0.0080926



PWB41 - U57- Toe



PWB41 - U57- Heel Fillet