

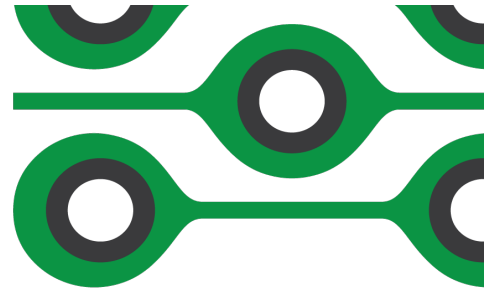
Multilayer Build-Up		
Sequential Build-Up?	<input type="text" value="Yes"/>	
	Standard	Advanced
Maximum Layer Count	16-36	48
Layer to Layer Registration Tolerance	0.075mm	0.05mm

Drilling		
<u>Standard Drilling</u>	Standard	Advanced
Aspect Ratio	1:8	1:12
Minimum Size for Finished Round Hole (PTH, Mech. Drilling)	0.15mm	0.13mm
Round Hole Size Tolerance (PTH, Mech. Drilling)	±0.075mm	±0.05mm
Minimum Round Hole Size Diameter (NPTH, Mech. Drilling)	0.2mm	0.2mm
Round Hole Size Tolerance (NPTH, Mech. Drilling)	±0.05mm	±0.05mm
Minimum Round Hole Size Diameter (NPTH, Punching)	0.8mm	0.8mm
Round Hole Size Tolerance (NPTH, Punching)	±0.13mm	±0.10mm
Microvias Diameter	0.15mm	0.10mm
 <u>HDI</u>		
Via-in-pad?	<input type="text" value="Yes"/>	
Staggered Vias?	<input type="text" value="Yes"/>	
Stacked Vias?	<input type="text" value="Yes"/>	
Copper Filled Vias?	<input type="text" value="Yes"/>	
Sequential Build-Up?	<input type="text" value="Yes"/>	
	Standard	Advanced
Laser Drilled Diameter for Microvias	0.10mm	0.075mm
Laser Drilled Microvias Aspect Ratio	0.8:1	1.0:1.0
Maximum Depth for Laser Drilled Microvias	0.09	0.12
HDI Construction	Type I	Type II
Build-Up Layers	1+N+1	2+N+2
Layer to Layer Registration Tolerance for Build-Up	0.09mm	0.075mm

Solder Mask Printing		
	Standard	Advanced
Solder Mask Type (Matt)	LPI, Silkscreen	LPI, Silkscreen
Solder Mask Type (Glossy)	LPI, Silkscreen	LPI, Silkscreen
Minimum Solder Mask Trace	4mil	3mil
Minimum Solder Mask Clearance	3mil	2mil
Solder Mask Registration Tolerance	+/-3mil	+/-2mil

Routing / Milling		
	Standard	Advanced
Minimum Clearance Between Tracks and Milling	0.25mm	0.20mm
Milling / Routing Tolerance	+/-5mil	+/-4mil

Electrical Test		
	Standard	Advanced
Technology	Test Fixtures & Flying Probes	Test Fixtures & Flying Probes
Impedance Control Tolerance	±10%	±8%
Continuity Resistance Detection Limit (Minimum)	50Ω	20Ω
Insulation Resistance Detection Limit (Minimum)	20MΩ	30MΩ
Test Voltage (Minimum / Maximum)	100V/300V	100V/300V



Surface Finish		Comments (Type, Chemistry...)								
OSP	<input type="checkbox"/>	Enthone Entek® Plus CU-106A (X) HT or SMD F2 (LX) or Baikai M2608								
ENIG	<input type="checkbox"/>									
	Nickel Thickness (Min/Max)	EN-51series								
	Gold Thickness (Min/Max)	<table border="1"> <tr> <td>Standard</td> <td>2.54-3.81um</td> <td>Advanced</td> <td>4.0-5.0um</td> </tr> <tr> <td>Standard</td> <td>0.05-0.08um</td> <td>Advanced</td> <td>0.10-0.15um</td> </tr> </table>	Standard	2.54-3.81um	Advanced	4.0-5.0um	Standard	0.05-0.08um	Advanced	0.10-0.15um
Standard	2.54-3.81um	Advanced	4.0-5.0um							
Standard	0.05-0.08um	Advanced	0.10-0.15um							
Immersion Tin	<input type="checkbox"/>	CT-15, INNOTECH								
Immersion Silver	<input type="checkbox"/>									
Gold Finger	<input type="checkbox"/>	SterlingTM								
	Nickel Thickness (Min/Max)	Chinese brand "明正宏"								
	Gold Thickness (Min/Max)	<table border="1"> <tr> <td>Standard</td> <td>2.54-3.81um</td> <td>Advanced</td> <td>4.0-5.0um</td> </tr> <tr> <td>Standard</td> <td>10-30u"</td> <td>Advanced</td> <td>30-50u"</td> </tr> </table>	Standard	2.54-3.81um	Advanced	4.0-5.0um	Standard	10-30u"	Advanced	30-50u"
Standard	2.54-3.81um	Advanced	4.0-5.0um							
Standard	10-30u"	Advanced	30-50u"							
Electrolytic Gold	<input type="checkbox"/>	Rohm&Haas: PCM PLUS/PC-3								
	Nickel Thickness (Min/Max)	<table border="1"> <tr> <td>Standard</td> <td>3.81-5.0um</td> <td>Advanced</td> <td>>5.0um</td> </tr> <tr> <td>Standard</td> <td>1-2u"</td> <td>Advanced</td> <td>3-4u"</td> </tr> </table>	Standard	3.81-5.0um	Advanced	>5.0um	Standard	1-2u"	Advanced	3-4u"
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Standard	1-2u"	Advanced	3-4u"							
	Gold Thickness (Min/Max)									
HASL (non ROHS)	<input type="checkbox"/>	Pb(37%)/Sn(63%)								
HASL (ROHS)	<input type="checkbox"/>	Sn/Ni/Cu, Sn/Ag/Cu								

Miscellaneous Technologies		Comments (Type, Chemistry...)
Solder Mask by Powder Coating	<input type="checkbox"/>	Yes
Blind Vias	<input type="checkbox"/>	Max A/R=6:1
Buried Vias	<input type="checkbox"/>	Max A/R=6:1
Controlled Depth Routing	<input type="checkbox"/>	±0.2mm
Flex-Rigid	<input type="checkbox"/>	Max: 20-Layers
Peelable Mask	<input type="checkbox"/>	Type of Peelable: Peters' SD 2955
Vias Plugging with S/M	<input type="checkbox"/>	Type of Plugging Materials: Normal S/M
Vias Blocking with Resin	<input type="checkbox"/>	Type of Plugging Materials: Normal Resin