



Capability		Standard 2013 Microns/Mils	Advanced 2013 Microns/Mils	Road Map Microns/Mils
<b>Inner layer</b>	Track Gap	50 microns - 2 mils 50 microns - 2 mils	38 microns - 1.5 mils 38 microns - 1.5 mils	25 microns - 0.8 mils 25 microns - 0.8 mils
<b>Outer layer</b>	Track Gap	75 microns - 3 mils 75 microns - 3 mils	63 microns - 2.5 mils 63 microns - 2.5 mils	50 microns - 2 mils 50 microns - 2 mils
<b>Laser via pads</b>	External Pads Internal Pads	0.250 mm - 10 mils 300 microns - 12 mils	200 microns - 8 mils 225 microns - 9 mils	150 microns - 6 mils 200 microns - 8 mils
<b>Mechanical via pads</b>	External Pads Internal Pads	450 microns - 18 mils 500 microns - 20 mils	350 microns - 14 mils 450 microns - 18 mils	350 microns - 12 mils 425 microns - 17 mils
<b>Aspect ratio</b>		10:1	11:1	12:1
<b>Solder resist Solder mask clearance</b>		40 micron - 1.6 mils	30 microns - 1.2 mils	20 microns - 0.8 mils
<b>Copper thickness</b>	Min Max	12 microns - 0.5 mils 210 microns - 9 mils	9 microns - 0.4 mils 210 micron - 9 mils	5 Microns - 0.2 mils >210 microns - 9 mils
<b>Min Dielectric thickness</b>		25 microns - 1mils	25 microns - 1 mils	<25 microns - 1 mils
<b>HDI</b>	Min Max	1+N+1 5+N+5	1+N+1 6+N+6	1+N+1 >6+N+6
<b>Max panel size Standard</b>		24" x 21" / 609.6mm x 533.4mm 24" x 18" / 609.6mm x 457.2mm	24" x 21" / 609.6mm x 533.4mm 24" x 18" / 609.6mm x 457.2mm	> 24" x 21" / 609.6mm x 533.4mm > 24" x 18" / 609.6mm x 457.2mm
<b>Panel thickness</b>	Min Max	0.03" / 0.8 mm 0.20" / 5.00 mm	0.016" / 0.4 mm 0.21" / 5.3 mm	0.001" / 0.25 mm > 0.21" / 5.3 mm
<b>Max layer count</b>		40	50	>50
<b>Min mechanical hole Buried pair mechanical Min diameter laser via Buried pair laser</b>	Min Min Min Min	250 microns - 10 mils 150 microns - 6 mils 100 microns - 4 mils 70 microns - 2.8 mils	200 microns - 8 mils 150 microns - 6 mils 75 microns - 3 mils <70 microns - 2.8 mils	150 microns - 6 mils 150 microns - 6 mils 50 microns - 2 mils <70 microns - 2.8 mils
<b>Mechanical depth control</b>	+/-	+/- 25 microns - 1 mils	+/- 15 microns - 0.6 mils	+/- 10 microns - 0.4 mils
<b>Control impedance</b>	%	+/- 10%	+/- 7%	>+/- 7%