Summarised Capability - Merlin Flex Limited version 6

	Standard Capability	Advanced Capability	Roadmap
General			
Minimum Board Thickness	0.025mm	0.012mm	-
Maximum Board Thickness	2.40mm	5.00mm	•
Board Thickness Tolerance	±10%	-	-
Minimum Core Thickness	0.025mm	0.012mm	-
Layer Count	12	16	24
Inner Layer Track / Gap Width			
Minimum Track - 18 micron copper	80 µm	65 μm	-
Minimum Track - 35 micron copper	100 µm	75 μm	-
Minimum Gap - 18 micron copper	100 µm	75 μm	-
Minimum Gap - 35 micron copper	125 µm	100 µm	-
Outer Layer Track / Gap Width	- 1		
Minimum Track - 18 micron plus plated copper	100 μm	75 μm	-
Minimum Track - 35 micron plus plated copper	125 µm	100 µm	-
Minimum Gap - 18 micron plus plated copper	125 µm	100 μm	-
Minimum Gap - 35 micron plus plated copper	150 µm	120 µm	-
Holes		,	
Minimum Hole Size (as drilled)	0.20mm	0.12mm	0.10mm
Minimum Annular Ring Inner (IPC class 3)	0.20mm	0.20mm	-
Minimum Annular Ring Outer (IPC class 3)	0.225mm	0.225mm	-
Hole Size Tolerance (non plated)	±0.050mm	±0.025mm	-
Hole Size Tolerance (plated)	±0.075mm	±0.050mm	-
Positional Tolerance	±0.075mm	±0.050mm	-
Maximum Aspect Ratio	6:1	8:1	10:1
Polyimide Coverlayer			
Minimum Clearance From Copper	0.10mm	0.075mm	-
Minimum Encapsulation	0.15mm	0.10mm	-
Minimum Web Between Apertures	0.15mm	0.10mm	-
Liquid Photoimageable Solder Mask			
Minimum Clearance From Copper	0.075mm	0.050mm	-
Minimum Encapsulation	0.10mm	0.075mm	-
Minimum Web Between Apertures	0.10mm	0.075mm	-
Notation Ink - White (other colours availal	ole)		
Minimum Gap To Features	0.15mm	0.10mm	-
Minimum Line Width	0.125mm	0.10mm	-
Silver Ink			
Minimum Clearance From Board Edge	1.00mm	0.75mm	-
Surface Finish (other finishes available)			
Hot Air Solder Level Thickness Range	Coverage-35µm	5 – 20µm	
ENIG (Nickel) Thickness Range	IPC-4552	-	Per IPC-4552
ENIG (Gold) Thickness Range	IPC-4552	-	Per IPC-4552
Profile Tolerances (subject to tool type)			
Positional Accuracy	±0.20mm	±0.050mm	-
Minimum Internal Radius	0.50mm	-	<u>-</u>
Impedance	313311111		
Tolerance	± 10%	± 8%	±8%
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