

	STANDARD PRODUCTION	ADVANCED PRODUCTION
PADS AND HOLES		
Through hole size	0.2 mm	0.15 mm
Blind/buried hole size	0.12 mm	0.1 mm
Plated through hole size tolerance (+/-)	0.1 mm	0.1 mm
Non plated hole size tolerance (+/-)	0.05 mm	0.05 mm
Hole positional tolerance	0.025 mm	.0025 mm
Through hole pad size (inner) (assume tangency)	0.4 mm	0.3 mm
Through hole pad size (outer) (assume tangency)	0.3 mm	0.25 mm
Blind/buried pad size	0.25 mm	0.2 mm
Press fit hole tolerance (+/-)	0.075 mm	0.075 mm

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PRODUCT DIMENSIONS		
Max PCB delivery unit (testable)	559 x 375	559 x 407
Min PCB thickness	0.4	0.3
Max PCB thickness	3.6	3.6
PCB thickness tolerance	10%	10%
Broad flatness (%)	1	1
Max layer count	24	24
Aspect ratio (0.3mm hole 20um min CU)	8:1	10:1

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INNERLAYERS		
Minimum track width & spacing	0.1 mm	0.075 mm
Cu foil thickness (min)	12 um	9 um
Cu foil thickness (max)	105 um	140 um
Cores with imbalanced Copper	Y	Y
Min dielectric thickness [cores]	0.1 mm	0.075 mm

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MICROVIA		
Microvias 1 to 2	0.12 mm	0.1 mm
Min microvia hole size (drilled)	0.12 mm	0.1 mm
Min microvia pad size capture (outer)	0.25 mm	0.2 mm
Min microvia pad size bounce (inner)	0.2 mm	0.15 mm
Microvia: 1 to 3 and N to [n-2]	0.25 mm	0.2 mm
Microvia: filling of vias (plated Cu)	Y	Y

	STANDARD PRODUCTION	ADVANCED PRODUCTION
OUTERLAYER		
Min track width & gap T/G	0.1 mm	0.075 mm
Cu foil thickness (min)	18 um	12 um
Cu foil thickness (max)	105 um	140 um
Track width tolerance	+/- 10%	+/- 10%

	STANDARD PRODUCTION	ADVANCED PRODUCTION
SOLDERMASK		
Min clearance to copper (design)	75 um	50 um
Min solder dam	100 um	75 um

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SURFACE FINISH		
Immersion Ni/Au	Y	Y
Immersion silver	Y	Y
Immersion tin	Y	Y
OSP	y	Y
Pb-free HASL	Y	Y
Pb HASL	Y	Y
Electrolytic Hard gold	Y	Y

	STANDARD PRODUCTION	ADVANCED PRODUCTION
SCREEN PRINT		
Peelable mask	Y	Y
Carbon	Y	Y
Via plugging	Y	Y
Notation (legend)	Y	Y
Notation - min line width	0.1 mm	0.1 mm

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PROFILE		
Rout min hole to edge (+/-)	0.15 mm	0.1 mm
Scoring (V cut) location tolerance (+/-)	0.075 mm	0.05 mm
Scoring (V cut) web thickness (1.6mm PCB)	0.4 mm	0.4 mm
Scoring (V cut) web thickness tolerance (+/-)	+/- 10%	+/- 10%

	STANDARD PRODUCTION	ADVANCED PRODUCTION
MATERIALS		
FR1	Y	Y
FR2	Y	Y
CEM-1	Y	Y
CEM-3	Y	Y
FR4 (STD & High-Tg)	Y	Y
ROGERS	Y	Y
TACONIC	Y	Y
POLYIMIDE	Y	Y
IMS	Y	Y