

Parametre		Standard	Advance
📍	Panel size	610 × 510 mm 510 × 407 mm	750 × 650 mm 510 × 407 mm
📍	Activate Board Area	570 × 470 mm 460 × 367 mm	700 × 600 mm 460 × 367 mm
📍	Cooper Thickness	External Layers Internal Layers	100µm 200µm 170µm
📍	Number of layers (max)	32 layers max	70 layers max
General	Board Thickness	min max	0.30mm 7.00mm
	Material Tolerance +/-		10%
	Min Core Thickness		0.080mm
			0.080mm
Layers	Inner	Min Line (0.5oz start copper)	0.075mm
		Min Space (0.5oz start copper)	0.075mm
	Outer	Min Line (12µm start copper)	0.075mm
		Min Space (12µm start Cu)	0.075mm
Holes	Minimum Hole size(drilled)	0.3mm	
	Min Annular Ring Radial Inner*	0.15mm	
	Min Annular Ring Radial Outer*	0.15mm	
	NPTH Hole Size Tolerance +/-	0.035mm	
	PTH Hole Size Tolerance +/-	0.050mm	
	Positional Tolerance > 1.00 +/-	0.05mm	
	Positional Tolerance < 0.95 +/-	0.100mm	
Maximum Aspect Ratio	12		
Solder Resist (Photoimageable)	Min Dam (Green mask only)	0.12mm	
	Min Dam (Red & Blue mask)	0.15mm	
	Min Dam (Black & White mask)	0.18 mm	
	Minimum designed clearance	0.10 mm	
Marking (ink)	White, black, Yellow	0.1 mm	
	Character size minimum	0.5 mm	
Surface finish	HASL (Lead free)	y	
	Immersion Gold	y	
	Pre Flux	y	
	Hard Gold	y	
	Tin	y	
	ENEPIG	y	

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Electrical Test (Flying Probe)	Min Board Thickness Horizontal	min	0.2	0.2
	Min Board Thickness Vertical	max	0.2	0.2
	Max board size		700 X 500	700 X 500
	Max Test Voltage		250 V	250 V
	Minium Value Ohms		10 Ohms	10 Ohms
	Maximum Value Ohms		10M Ohm	10M Ohm
Impedance	Tolerance	10%	10%	
Flatness	Percentage Bow and Twist	0.50%	0.50%	
Via Hole Plugging	Maximum Hole Diameter (finished)	0.25 mm	0.15 mm	
	Maximum Board Thickness	4.0T	6.0T	
Via Hole Filling	Maximum Hole Diameter (finished)	0.35 mm	0.60 mm	
	Minimum Hole Diameter (finished)	0.15 mm	0.15 mm	
	Microviva Hole Diameter Min(drilled)	0.15 mm	0.10 mm	
Routing	Minimum Cutter Diameter	0.8 mm	0.8 mm	
	Profile Tolerance (+/-)	0.2 mm	0.1 mm	
	Edge to Hole Tolerance	0.2 mm	0.1 mm	
	Copper to Edge	0.35 mm	0.2 mm	
	Copper Feature (fiducial) to Edge	0.35 mm	0.2 mm	
V Scoring	Minimum Board Thickness	0.4 mm	0.4 mm	
	Maximum Board Thickness	2.0 mm	2.0 mm	
AOI	Minimum track & gap * Thin start Cu	0.08 mm	0.08 mm	

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