



Overview of services (In-House manufacture capabilities)

Production documents	data via email, digitalization of film templates possible	
Data format	DPF, Gerber, extended Gerber, HPGL, Eagle.BRD files	
Product range	single-layer, double-layer, multilayer, HDI	
Max. number of layer	12 layers, more on request	
Board thickness	1.0 mm – 3.2 mm	
Max. usable panel size	490 x 580 [mm x mm] or 500 x 570 [mm x mm]	
Laminate type	FR-4 acc. to IPC 4101/21, TG 130, TG 150, TG 170, halogen-free	
Multilayer core	from 0.1 mm; copper lamination 18, 35, 70 and 105 µm, others on request	
Copper plating	through hole plating 25 µm, final copper thickness 35, 70, 105, 210 µm, other copper thicknesses on request	
Conductor structure	100 µm, less on request	
Drilling hole size	min. hole diameter plated: 0.20 mm microvias ≥ 80 µm	
Aspect ratio	max. 1:8	
Surface finish	ENIG, HAL lead free, immersion tin	
Solder mask	semi-matt, green, blue, red, white*, black*	
Additional print	legend print, peelable mask, via plugging / filling type 3a / 7 IPC 4761	
Hole plugging	resin plug IPC4761 Typ VI und Typ VII	
Contour machining	milling, scoring (also jump scoring), chamfers 45° and 20° (PCI) also set back, depth milling and countersinking on request	
Testing	electrical test, AOI for inner layers, AVI for outer layers, 100% final test, impedance calculation and impedance test	
Approvals	UL File E130014 , DIN EN ISO 9001, DIN EN ISO 14001, DIN EN ISO 50001	
Production standard	IPC 6012 class 2, class 3 by agreement	
Lead time	15 WD (working days)	
Express service	double-layer (2L):	≥ 3 WD
	multilayer (ML):	≥ 5 WD
	multilayer (ML) Ni/Au:	≥ 6 WD

* special design rules apply

Do you have further requirements or questions? Please contact us, we will be glad to help you.

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