

## PCB Service Overview

**PCBPower: Power Value - Verified - Verified Plus - On demand specifications**

Production in		Pooling		Non-pooling
Service	Power Value	Verified	Verified Plus	On demand
			Additional options	Additional options
<b>No. of layers</b>	DS, ML4	1-2-4-6	8	Up to 16
<b>Standard product</b>	1) 2 PCBs in 5 working days  2) PTH, 2 x green soldermask, 1 x white legend	PTH, 2 x green soldermask, 1 x white legend	HAL, Leadfree HAL, Immersion Silver, ENIG (Electroless Nickel Immersion Gold),	Hard Goldfingers, Carbon Ink Pads
<b>Surface finish</b>	Any Lead Free Finish	Lead-free finish at our discretion for best price	HAL, Immersion Silver, ENIG or Lead Free HAL ENIG (Electroless Nickel Immersion Gold),	Hard goldfingers  Carbon ink pads
<b>Minimum PCB dimension</b>	5mm (0.2") x 5mm (0.2")	5mm (0.2") x 5mm (0.2")		On Request
<b>Maximum PCB dimension</b>	370mm (12.8") X 580mm (23.2") for SS and DS and 350mm (14") X 560mm (22.4") for ML	370mm (12.8") X 580mm (23.2") for SS and DS and 350mm (14") X 560mm (22.4") for ML	370mm (12.8") X 580mm (23.2") for SS and DS and 350mm (14") X 560mm (22.4") for ML	On Request
<b>Material type and thickness</b>	FR-4 1.6mm (0.061") to IPC6012	FR-4 1.6mm (0.061") to IPC6012	FR-4 1.6mm (0.061") to IPC6012	All board types FR-4 0.3 - 6.4mm  RogersRO4000 serie
<b>Base copper foil</b>  <b>- outer layers</b>	DS and ML - 17.5µm/½oz  Single-sided 35µm/1oz	DS and ML - 17.5µm/½oz  Single-sided 35µm/1oz	Options for SS/DS:  35 µm/ 1 oz  70 µm/ 2 oz	All layers 17.5µm, 35µm, 70µm & 105µm
<b>Base copper foil</b>	17.5µm/ 1/2 oz	17.5µm/ 1/2 oz		All layers 17.5µm, 35µm,

<b>- inner layers</b>				70µm & 105µm
<b>Solder-mask type-colour</b>	Liquid Photo Imageable Green	Liquid Photo Imageable Green	Liquid Photo Imageable Green	Red, white, transparent  Blue peelable mask  Via plugging/filling
<b>Legend colour</b>	White	White		Yellow, Black
<b>Min. track/gap</b>	0.150mm (0.006")	0.150mm (0.006")		0.10mm (0.004")
<b>Min. finished hole size</b>	0.25mm (0.010")	0.25mm (0.010")		0.15mm (0.006")  Press fit holes
<b>Min. annular ring - outer layers</b>	0.127mm (0.005")	0.127mm (0.005")		0.10mm (0.004")
<b>Min. annular ring - inner layers</b>	0.15mm (0.006")	0.15mm (0.006")	0.15mm (0.006")	0.15mm (0.006")
<b>Minimum copper to board edge clearance</b>	0.25mm (0.010") (routed)	0.25mm (0.010") (routed)	0.450mm (0.018") (V-cut)	Copper up to edge  Plated holes on edge  Round-edge plating
<b>Slots and cut-outs</b>	Internal milling with a 2 mm (0.079") tool	Internal milling with a 2 mm (0.079") tool	Choice of tools  1.6mm (0.063")  0.8mm (0.032")	Depth routing
<b>Delivery panels</b>	Panels are not accepted	Breakrouted with 2 mm (0.079") tool	V-Cut (scoring)	Both on the same panel
<b>Multilayer-build</b>	Standard	Standard		Custom
<b>Electrical test</b>	DS - No, ML4 - Yes	DS - No, ML4 - Yes	SS/DS - Optional, ML - Yes	SS/DS - Optional, ML - Yes
<b>Traceability</b>	Batchnumber	Batchnumber	Batchnumber on the pcb	Batchnumber on the pcb

	on the pcb	on the pcb		
<b>UL marking</b>	Not availalbe	Not availalbe	Not available	UL 94 V-0