



CAPABILITIES

ANYTHING IS POSSIBLE





	Standard	Advanced
CIRCUIT / PANEL SIZE		
Metal Clad PCB	510 x 610mm, 457 x 610mm	Larger sizes available for long boards

MATERIALS

Aluminium	Denka, Ventec, Bergquist, Laird, and more
Other Materials	Please Enquire

COPPER FOIL

Metal Clad PCB	1oz (35µm) – 4oz (140µm)	Heavier weights achievable under consultation
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SURFACE FINISHES

Lead Free Hot Air Solder Level	Yes	Yes
OSP	Yes	Yes
Immersion Gold (ENIG)	Yes	Yes
ENEPIG		Yes
Immersion Silver		Yes
Immersion Tin		Yes

SOLDER MASKS, IDENTS AND CARBON

Photoimageable (LPI) Solder Mask	Green, White, Black, Red, Blue	Orange, Purple, Grey & Others on request
Peelable Solder Mask	Standard & Hi-Temp—Blue, Green, Red	Standard & Hi-Temp—Blue, Green, Red
UV Curable ident (Silkscreen)	White, Yellow, Black	Green, Red, Blue, Brown
Carbon Key Pads	Yes	Yes
Carbon Links	No	Yes

CNC DRILLING

Min. Finished Hole Size (Mechanical)	0.60mm x Material Thickness	Smaller considered on a case by case basis
Max. Finished Hole Size (Mechanical)	5.90mm	Holes over 5.90mm diameter are routed
Minimum Punched Hole Size	1.00mm x Material Thickness	
Minimum Router Diameter	1.6mm	1.6mm

TRACK WIDTH

	Copper Thickness	Minimum Width
	1oz (35um)	0.005" (0.13mm)
	2oz (70um)	0.006" (0.15mm)
	3oz (105um)	0.007" (0.18mm)
	4oz (140um)	0.008" (0.20mm)
	6oz (210um)	0.010" (0.25mm)
	8oz (280um)	0.015" (0.38mm)
	10oz (350um)	0.015" (0.38mm)



TRACK GAP

	Copper Thickness	Minimum Width
	1oz (35um)	0.007" (0.18mm)
	2oz (70um)	0.009" (0.23mm)
	3oz (105um)	0.012" (0.30mm)
	4oz (140um)	0.014" (0.36mm)
	6oz (210um)	0.020" (0.51mm)
	8oz (280um)	0.024" (0.61mm)
	10oz (350um)	0.030" (0.76mm)

MINIMUM TRACK TO PROFILE

	Standard
Scored	0.50mm
Routed	0.40mm
Punched	One material thickness

SOLDER RESIST

	Standard
Soldermask	The solder resist clearance around copper pads should be 0.1mm – this can be reduced to 0.05mm to maintain a 0.20mm solder dam
Solder Dam Width	Min 0.20mm
Solder Mask Pad Size	Min 0.30mm x 0.30mm
Character Height (Text In Resist)	For the purposes of legible text, a minimum character height of 0.2mm is recommended

IDENT

	Standard
Minimum Character Height	1.20mm
Minimum Character Width	0.25mm
Minimum Text Line Thickness	0.25mm
Ident Text and Line to Copper Pad	0.20mm – No ident text or lines to encroach onto copper pads
Minimum Distance to Board Profile	0.50mm

DRILLING & PUNCHING

	Drilled	Routed
Minimum Hole Edge to Circuit Profile	1.0mm	One material thickness
Minimum Hole to Hole Edge	1.0mm	One material thickness

ELECTRICAL TEST

	Standard	Advanced
% Tested (Open / Short test)	100%	100%
Hi-Pot Breakdown Test	On Request	On Request



LEAD TIMES: UK MANUFACTURE

	Standard	Quick Turn
	10-15 Days	3-5 Days

LEAD TIMES: FAR EAST MANUFACTURE

	Standard	Quick Turn
	10-15 Days + Shipping	10 Days + Shipping

Air Freight Lead Time – 5 Days

Sea Freight Lead Time – 20 Days

All Far East lead times are subject to customs clearance

Premium International shipments can be arranged by DHL, Fedex, UPS or TNT at extra cost