

# INTERNATIONAL ADVANTAGE

ENHANCED PROFITABILITY THROUGH IMPROVED SOURCES OF SUPPLY

## General PCB Capabilities

Category	Description	Ridgid Flex / Flex Capability	Ridgid Capability
Files can be	Gerber files - preferred format	RS-274X	274-X, 274-D, DPF, ODB++
	Drill file	DRILL/ROUT	X & Y coordinates, with tool sizes included
Size	Maximum finished dimension	250*500MM	20"X30"(SINGLE/DOUBLE LAYER) 20"X26"(MULTILAYER)
Thickness	Standard processed thickness	0.15MM+/-0.03MM	63+/-6MIL
	Minimum thickness	0.07MM+/-0.03MM	Single/double:0.0039"+/-0.0004"(0.1mm+/-0.01mm) 4 Layer :0.016"+/-0.003"(0.4mm+/-0.076mm) 6 Layer:0.031"+/-0.004"(0.8mm+/-0.1mm) 8 Layer:0.04"+/-0.004"(1.0mm+/-0.1mm) 10 Layer: 0.05"+/-0.005"(1.2mm+/-0.12mm) 12 Layer:0.06"+/-0.005 (1.5+/-0.13mm)
	Maximum thickness	0.3MM+/-0.03MM	200MIL
	Bow and twist		0.75%
Laminate Materials	FR4 laminate thickness (standard)	0.1-1.5mm	3---50 MIL
	High TG FR4 (170 deg C)	YES	3---50 MIL
	Flex	YES	
	Metal core		Alluminum Thickness: 0.6mm / 0.8mm / 1.0mm /1.2mm/ 1.6mm/2.0mm
Layer Construction	Maximum processed layer count	10 layers	36L (4 layers metal core)
	Minimum core thickness	over 0.23MM	3MIL
Drilling	Minimum Size	0.2MM	0.2MM
	Maximum Size	6.3MM	6.5MM
	True position tolerance	0.025-0.05MM	+/-2MIL
	Tolerance of PTH	0.04-0.08MM	+/-3MIL
	Tolerance of NPTH	0.02-0.05MM	+/-2MIL
	Annular Ring	0.15MM	±0.005" (0.127mm)
	Minimum in holes	0.2MM	0.8MIL
Copper Plating	Minimum in holes with 2 oz Finished Copper Weight	NO	0.8MIL
	Aspect Ratio		8
Traces	Finished trace size		+/-20%



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Traces	Minimum Trace Width / Space ( 1 oz Finished Copper Weight) starting from 1/3 oz	0.09MM/ 0.06MM	3/3MIL
	Minimum Trace Width / Space ( 1 oz Finished Copper Weight) starting from 1/2 oz	0.09MM/0.075MM	4/4MIL
	Minimum Trace Width / Space ( 2 oz Finished Copper Weight)	NO	7/7MIL
	Minimum Trace Width / Space ( 3 oz Finished Copper Weight)	NO	8/8MIL
	Minimum Trace Width / Space ( 4 oz Finished Copper Weight)	NO	12/12MIL
Inner layers	Minimum space drill to conductor		7MIL
	Minimum annular ring	0.1-0.3mm	5MIL
	Layer to layer registration		5MIL
Solder mask	Colors	green/red /black/bule/yellow	Green, Light Green, Matte Green, White, Black, Yellow, Red, Blue
	Min. Solder Mask clearance		3MIL
	NPTH Min. Solder Mask clearance		4MIL
	Solder dam		3.5MIL
	Nominal thickness	10UM-20UM	0.7MIL
Silkscreen	Colors	white	White, Black, Yellow
	Minimum Silkscreen clearance		5MIL
	Minimum height / width	1.0MM /1.0MM	20MIL/6MIL
Electrical Testing	Continuity	yes	50 OHM
	Isolation	yes	20M OHM



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Controlled Impedance	Tolerance		+/-20%
	Impedance measurement technique		POLAR SI500 / HP54750
Board Routing & Profile	Tolerance Board Edge & Cutouts	0.075-0.2MM	+/-4MIL
	Score Line to Edge of Board	0.075-0.2MM	10 MIL MIN.
	Depth of V-Scoring (Board Thickness > =0.04")	NO	12+/-4MIL
	Scoring Angle	over 30 degree	30,45,60
	Deviation of V-scoring		+/-3MIL
	HALF-MOON SHAPE	yes	
Surface Finishes	HASL / Lead Free HASL	yes	YES
	Immersion Gold	yes	YES
	Immersion Silver	no	YES
	Immersion Tin	yes	YES
	OSP	yes	YES
	Soft Gold	yes	YES
	CARBON	no	YES
Gold fingers	Gold plated edge connectors		Max. 80 u" Au, over 100 u" Ni
Others	UL (Underwriters Laboratory)	yes	IF REQUIRED
	Date Code	KWFPC2000	IF REQUIRED
Standards	IPC-600 Pictorial guide	yes	CLASS II (Limited Class III)
Quality	Quality certifications	ISO9000/9001 TS16949	ISO9001:2000 TS16949



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