Printed Circuit Board Capabilities

Amphenol Printed Circuits' (APC) capabilities are among the world's broadest and most advanced, delivering consistent quality and reliability for demanding high bandwidth systems and mission critical applications for more than 25 years. Proven engineering and manufacturing expertise eliminates printed circuit board design obstacles.

APC's North America printed circuit board operation provides tightly controlled processes from prototype through production printed circuit board volumes. The 214,000 square foot New Hampshire facility features state-of-the-art PCB manufacturing equipment and optimized material handling to ensure the highest quality and consistancy.



DESIGN FORMATS	Mentor PADS	Cadence Zuken	Design S	Services	
MANUFACTURING FORMATS	ODB++ (preferred) DXF Gerber 274X	Autoplot Excellon HPGL	DPF Gerber 2 IPC D 3	274D 56	
MAXIMUM PANEL SIZE	24" x 54" (609.5mm x 12 30" x 44" (762.0mm x 12 36" x 42" (914.4mm x 10	371.5mm) 17.5mm) 066.8mm)			
MAXIMUM PANEL THICKNESS	.500" (12.7mm)				
LAYER COUNT	Up To 64				
INTERCONNECT FORMATION TYPES	Back Drilled Dual Diameter Thru Hole	Blind (laser & mec Electrically Isolate Via Fill Conductiv Via Fill Non-Cond	hanical) Buried d SMT e uctive		
ASPECT RATIO - DRILLED SIZE	Compliant Holes > = 0.2 Via Holes < 0.22	25 17: 13:	1		
FINISHED HOLE SIZE	Compliant Pinned Via (A/R dependent) Buried Vias Microvias (Up To 3 Elec	0.0 0.0 0.0 trical Layers) 0.0	147" (0.373mm) 080" (0.203mm) 060" (0.152mm) 040" (0.101mm)		
BLIND VIA ASPECT RATIO	1.25:1				
INTERNAL FEATURES	Lines Spacing Buried Resistors Buried Capacitance Minimum Core Thicknes	Lines 0.003" (0.0762mm) .5 oz. copper Spacing 0.003" (0.0762mm) .5 oz. copper Buried Resistors Yes Buried Capacitance No Minimum Core Thickness 0.001" (0.0254mm)		z. copper z. copper	
EXTERNAL FEATURES	Lines Spacing	0.00	04" (0.1016mm) .5 oz 04" (0.1016mm) .5 oz	. copper . copper	
MATERIALS	Low Tg FR4 (including p Rogers 3000 Rogers 4000 Rogers 6000 Rogers LCP Please contact Application materials - Hybrid Const	ohenolic cure) Hig Pol Me Nel Nel ons Engineering for ructions Available	lic cure) High Tg FR4 (including phenolic cure) Polyimide Megtron 6 Nelco 4000-13 EP Nelco 4000-13 SI & EP ngineering for the availability of additional ons Available		
COPPER PROCESSING	1/4 oz 10 oz. copper (U/L 7 oz.)				
IMPEDANCE SINGLE & DIFFERENTIAL	$\pm 10\%$ $\pm 7.5\%$ $\pm 5.0\%$				
SURFACE FINISHES	Electrolytic Ni/Au (Hard HASL Immersion Tin Reflowed Tin/Lead	& Soft) EN EN Imr OSI	IG IPIG nersion Silver		
CERTIFICATIONS	IPC A 600 Class I, II, and AS 9100-B / ISO 9001:20 ITAR Registration	l III IPC 008 Mil Mil	-6012 Class I, II, and -PRF-31032/1b/2a/3/ -P-55110	III 4	