Copper Clad Boards
500 Series ▶ BUY NOW

500 series (plain)

We offer 1/16", 1/32" and 1/64" FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuou woven glass cloth impregnated with epoxy resin. The copper on 1 ounce boards is 1.34mil thick (0.0341mm 34.1 microns). The boards are made of FR4 which is a flame retardant version of G-10 material.

Developed specifically for the circuit processing industries' requirements. Complies w UL #E214381 (select boards comply to UL #E213990). Provides ultraviolet blocking ; fluorescence when using automated optical inspection (AOI).

Our presensitized boards provide high resolution and excellent fine line control. They ideal for prototypes, small production runs, and student training.

Easy Cutting!! We also offer a large thin (12" x 18" x 1/32 inch) cat#675 paper pher presensitized board, perfect for cutting into smaller boards with no special equipmen perfect for the classroom.

Specifications

Copper Specifications	
Physical	
Thickness	1.34 mil 0.0341 mm 34.1 microns
Electrical	
Volume Resistivity	1.7×10^{-8} ohm · meter 1.7×10^{-6} ohm · cm

Laminite Specifications	
Physical	
Thickness	65 mil (1.65 mm)
Retained Resin	44%
Peel Strength	9.016 lb / in 161 kg / m
Flammability Rating	UL 94 V-0
Moisture Absorption (Material thickness of 0.028")	0.20%
Thermal	
Glass Transition Temperature (T_g)	140°C
Electrical	
Dielectric Constant: 1 Mhz 500 Mhz 1 Ghz	 4.7 4.27 4.25
Loss Tangent 1 Mhz 500 Mhz 1 Ghz	 0.025 0.016 0.016
Surface Resistivity	1×10^{14} Ohm · cm

Volume Resistivity		5×10^{12} Ohm · cm
Electric Strength		1100 volts / mil
		43,000 volts/mm

Available Sizes

Cat.No.	Plain (metric)	(approx. in imperial)
FR4 1/16" (1.60mm), single sided		
503	76 x 172 mm	3" x 5"
506	101 x 152 mm	4" x 6"
509	152 x 152 mm	6" x 6"
512	152 x 228 mm	6" x 9"
515	203 x 254 mm	8" x 10"
521	304 x 304 mm	12" x 12"
575	609 x 914 mm	24" x 36"
580	914 x 1219 mm	36" x 48"
FR4 1/16" (1.60mm), double sided		
550	152 x 152 mm	6" x 6"
555	304 x 304 mm	12" x 12"
576	609 x 914 mm	24" x 36"
585	914 x 1219 mm	36" x 48"
FR4 1/32" (0.80mm), single sided		
586	101 x 152 mm	4" x 6"
588	152 x 228 mm	6" x 9"
590	304 x 304 mm	12" x 12"
FR4 1/32" (0.80mm), double sided		
587	101 x 152 mm	4" x 6"
589	152 x 228 mm	6" x 9"
591	304 x 304 mm	12" x 12"
596	914 x 1219 mm	36" x 48"
FR4 1/64" (0.40mm), single sided		
597	152 x 228 mm	6" x 9"
FR4 1/64" (0.40mm), double sided		
598	152 x 228 mm	6" x 9"