

Copper Clad Boards

500 Series [► BUY NOW](#)



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 continuous 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 with UL #E214381 (select boards comply to UL #E213990). Provides ultraviolet blocking, no fluorescence when using automated optical inspection (AOI).

Our presensitized boards provide high resolution and excellent fine line control. They are 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 phenolic presensitized board, perfect for cutting into smaller boards with no special equipment. It is perfect for the classroom.

Specifications

Copper Specifications

Physical

Thickness	1.34 mil 0.0341 mm 34.1 microns
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Electrical

Volume Resistivity	1.7×10^{-8} ohm · meter 1.7×10^{-6} ohm · cm
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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
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Electrical

Dielectric Constant:	
1 Mhz	4.7
500 Mhz	4.27
1 Ghz	4.25
Loss Tangent	
1 Mhz	0.025
500 Mhz	0.016
1 Ghz	0.016
Surface Resistivity	1×10^{14} Ohm · cm

Volume Resistivity	5 x 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"