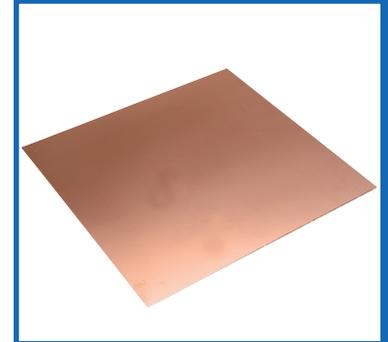


Copper Clad FR4 Fibre Glass Printed Circuit Board



DESCRIPTION

Single- and double-sided high quality fibreglass 305g/m² copper clad boards made from epoxy glass material.

DISTINCTIVE FEATURES

- Range of sizes
- Single- and double sided
- Grade: FR4
- Fibreglass board
- Thickness: 1.6mm
- 35µm Copper thickness

APPLICATIONS

Prototyping, design projects, computers, communication equipment, instrument, OA equipment, etc.

FR4

34µm

UL94-V0



GENERAL SPECIFICATION

Test	Test Condition	Specification (IPC-4101C)	Typical Value
Peel Strength (1oz)	125°C	≥ 0.70	1.70N/mm
	Float288°C/10s	≥ 1.05	1.75N/mm
Thermal Stress	Float288°C/unetched	≥ 10	180 sec
Bow/Twist	A	≤ 1.0	0.17/0.35%
Flexural Strength	Warp	≥ 415	565N/mm ²
	Fill	≥ 345	416N/mm ²
Flammability	UL94	UL94-V0	V0
Glass Transition	E-2/105 DSC	≥ 130	135°C
Surface Resistivity	C-96/35/90	≥ 1.0 x 10 ⁴	1.0 x 10 ⁶ MΩ
Volume Resistivity	C-96/35/90	≥ 1.0 x 10 ⁶	1.0 x 10 ⁸ MΩ
Dielectric Constant	Etched/@1 MHz	≤ 5.4	4.58
Loss Tangent	Etched/@1 MHz	≤ 0.035	0.022
Arc Resistance	D-48/50+D-0.5/23	≥ 60	125 sec
Moisture Absorption	D-24/23	≤0.35 (min 0.51mm)	0.21%
	D-24/23	≤0.80 (max 0.51mm)	0.19%
Z-Axis Expansion	E-2/105 TMA	—	58/286ppm/°C
TD	TGA	—	305°C
T-260	TMA	—	10 min
Suitable etchant	Ferric Chloride solution		



MATERIALS

Material	Fibreglass FR4
Track Material	35µm Copper



CERTIFICATION AND STANDARDS

IPC-4101C	
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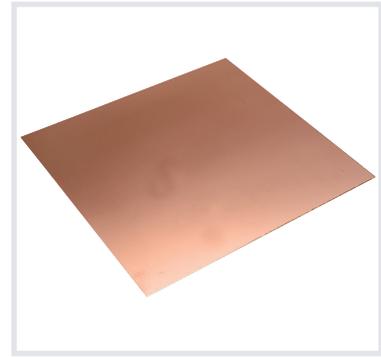
ENVIRONMENTAL/OPERATING SPECIFICATION

Flame Resistance	UL94-V0
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DIMENSIONS/DRAWINGS

Dimensions (see table)	mm
Thickness	1.6mm



PART NUMBER TABLE

Part Number Units	Single or Double Sided	Length mm	Width mm	EAN	UNSPSC	Country of Origin
34-1017	Single	160.0	100.0	5053556002429	32101509	China
34-1015	Single	203.0	95.0	5053556002405	32101509	China
34-1019	Single	220.0	100.0	5053556002443	32101509	China
34-1018	Single	233.4	160.0	5053556002436	32101509	China
34-1020	Single	233.4	220.0	5053556002450	32101509	China
34-1016	Single	305.0	203.0	5053556002412	32101509	China
34-1021	Double	160.0	100.0	5053556002467	32101506	China
34-1023	Double	220.0	100.0	5053556002481	32101506	China
34-1022	Double	233.4	160.0	5053556002474	32101506	China
34-1024	Double	233.4	220.0	5053556002498	32101506	China
34-1025	Double	305.0	203.0	5053556002504	32101506	China

R-TECH

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