



FJY294C-M PTFE fiber glass reinforced copper clad laminate

FJY294C-M is a special laminate made of PTFE resin and filled with ceramic for RF/Microwave application. Considering quality stability as the top priority, we have been optimizing our laminate structure and production technique, now our laminate can meet all domestic and international standards while with very competitive production cost.

Our laminate is with excellent electric performance, low loss and low coefficient of thermal expansion, favorable mechanical and size stability, which become very competitive high frequency PCB base material in the market.

Product Feature:

- Low DK, stable at different temperature and frequency
- Low loss, stable at different temperature and frequency
- Excellent anti-peel off characteristics
- Favorable mechanical and size stability
- Especially suitable for PTH design





Applications:

- Base station antennas and antennas for other application
- Microwave assemblies and modules
- Global positioning system
- Radar and other military application
- Wireless WIFI application







FJY294C-M Data Sheet

FJY294C-M Test Data Information

Dielectric Constant(10 GHz)	IPC TM-650 2.5.5.5	C24/23/50	2.94
Dissipation Factor(10 GHz)	IPC TM-650 2.5.5.5	C24/23/50	0.0013
Thermal Coefficient of Er (ppm/°C)	IPC TM-650 2.5.5.5 Adapted	-10°C to +140°C	+12
Peel Strength (lbs/per inch, copper 1OZ)	IPC TM-650 2.4.8	After Thermal Stress	≥7
Volume Resistivity (MΩ-cm)	IPC TM-650 2.5.17.1	C96/35/90	1.1×10^7
Surface Resistivity (MΩ)	IPC TM-650 2.5.17.1	C96/35/90	$1.2x10^7$
Arc Resistence (second)	IPC TM-650 2.5.1	D48/50	>180
Breakdown Voltage (kV)	ASTM D-149	D48/50	>35
Density (g/cm³)	ASTM D-792 Method A	A, 23°C	2.1
Water Absorption the highest (%)	IPC TM-650 2.6.2.1	E1/105 + D24/23	0.02
T288 (min)	IPC TM-650 2.4.24.1	E2/105	>60
CTE (ppm/°C)			17
X Axis Y Axis	IPC TM-650 2.4.41	0°C to 150°C	16
Z Axis			24
Thermal Conductivity (W/mK)	ASTM E-1225	100°C	0.58
Flammability	UL 94	C48/23/50, E24/125	Meets requirements of UL94-V0

Standard Thickness of Laminate	Standard Size	Standard Copper Clad
0.005" (0.127 mm)	18"x12" (457x305mm)	Hoz(18um)
0.010" (0.254 mm)	18"x24" (457x612mm)	1oz(35um)
0.015" (0.381 mm)		2oz(70um)
0.020" (0.508 mm)		
0.030" (0.762 mm)		
0.060" (1.524 mm)		
0.125" (3.175 mm)		

^{*}Thickness, Size can be customized.