

G-T1220

PTFE High Frequency Copper-Clad-Laminate



Product Overview

GT1220 laminate is a composite material of glass fiber cloth and PTFE, which is suitable for such aspects as the strip line and microwave circuit. It has the effects of low Dk and Df, which can be used above the KU band, and can provide faster signal transmission and higher signal/noise ratio. The plate is easier to be cut and processed into the size needed.

Main Features

- Low Dielectric Constant
- Ground-based radar system
- Low Dielectric Loss
- Space Satellite Transceiver
- Low Water Absorption
- MMW Application

Technical Specifications

Physical		
standard thickness	standard size	standard copper foil
0.005" (0.127mm)	48 X 36 (1220mm*914mm)	½ oz. (18 μ m) HTE (H/H)
0.010" (0.254mm)	24 X 18 (610mm*457mm)	1 oz. (18 μ m) HTE (H/H)
0.025" (0.635mm)	18 X 12 (457mm*305mm)	½ oz. (18 μ m) RTF (H/H)
0.050" (1.270mm)		1 oz. (35 μ m) RTF (1/1)

Test Performance					
Performance	Typical Value	Direction	Unit	Treatment Condition	Test Method
	GT1220				
DK	2.2±0.05	Z	-	10 GHz/23°C	IPC-TM-650 2.5.5.5
DF	0.0015				
		0.0025	Z	-	10 GHz/23°C
Temperature coefficient of Dk	20	Z	ppm/°C	-50 到 150°C	IPC-TM-650 2.5.5.5
Volume Resistivity	2.7*10 ⁷	XY	MΩ*cm	COND A	IPC-TM-650 2.5.17.1
Surface Resistivity	3.1*10 ⁷		MΩ	COND A	IPC-TM-650 2.5.17.Q
Tensile Strength	172		Mpa(kpsi)	RT	ASTM D638
	24				
Bending Strength	255		Mpa(kpsi)		IPC-TM-650 2.4.4
	35				
Dimensional Stability	<0.5		mm/m		IPC-TM-650 2.4.39A
CTE	30/40/235	X/Y/Z	ppm/°C	-55 -- 288°C	IPC-TM-650 2.4.41
TD	500				ASTM D3850
Thermal Conductivity	0.26	-	W/m/K	80°C	ASTM C518
Water Absorption	<0.10		%	D24/23	ASTM D570
Density	2.2		gm/cm ³	23°C	ASTM D792
Typical Peel Strength	>2.0		N/mm	H oz	IPC-TM-650 2.4.8
Flammability Rating UL 94	V-0				UL 94
Lead-Free Process Compatible	Yes				

For More Information

Please visit our website: <http://www.gospell.com> or contact your local sales representative:

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