

## GT-1350

### PTFE High Frequency Copper-Clad-Laminate



#### Product Overview

GT1350 high frequency circuit material is a product of special enforcement by glass fibre composed with PTFE, which can provide excellent electricity and mechanical stability. It is a kind of high dielectric constant circuit board material which can carry out a lot of information processing under UHF (GHz). It is an ideal material for RF and Microwave application areas. Dielectric constant is 3.5, dissipation factor is 0.0040, which can meet the performance of the design. Combined with glass fabric, the lamination surface is smooth that PTFE can use the standard PTFE printed circuit board to process the treatment technologies.

#### Main Features

- Good Thermostability
- High Power RF and Microwave Amplifier
- Low Dielectric Constant
- Wireless Communication System
- Excellent Machining Performance
- Power Amplifier

#### Technical Specifications

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

<b>Test Performance</b>					
Performance	Typical Value	Direction	Unit	Treatment Condition	Test Method
	GT1350				
DK	3.5±0.05	Z	-	10 GHz/23°C	IPC-TM-650 2.5.5.5
DF	0.003				
		0.004	Z	-	10 GHz/23°C
Temperature coefficient of Dk	-55	Z	ppm/°C	-50 -- 150°C	IPC-TM-650 2.5.5.5
Volume Resistivity	1.2*10 <sup>5</sup>	XY	MΩ*cm	COND A	IPC-TM-650 2.5.17.1
Surface Resistivity	2.0*10 <sup>5</sup>		MΩ	COND A	IPC-TM-650 2.5.17.Q
Tensile Strength	212		Mpa(kpsi)	RT	ASTM D638
	30				
Bending Strength	278		Mpa(kpsi)		IPC-TM-650 2.4.4
	39				
Dimensional Stability	<0.5		mm/m		IPC-TM-650 2.4.39A
CTE	18/19/24	X/Y/Z	ppm/°C	-55 -- 288°C	IPC-TM-650 2.4.41
TD	500				ASTM D3850
Thermal Conductivity	0.8	-	W/m/K	80°C	ASTM C518
Water Absorption	<0.10		%	D24/23	ASTM D570
Density	2.2		gm/cm <sup>3</sup>	23°C	ASTM D792
Typical Peel Strength	>1.4		N/mm	H oz	IPC-TM-650 2.4.8
Flammability Rating	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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