

## G-T1265

### Glass Fiber Cloth High Frequency Copper-Clad-Laminate



#### Product Overview

GT1265 is reinforced with glass fiber cloth to improve mechanical property, because of its lower expansivity and stronger dielectric constant compared with the laminate of non-fiberglass, it is very suitable for the design of RF circuits. As a circuit material, mechanical properties, dielectric constant, dielectric loss relative to the temperature variation is very stable, and it is easy to be processed to the size and shape required for.

#### Main Features

- Low Dielectric Constant
- Military Radar System
- Low Dielectric Loss
- Wireless Communication System
- Stable Electrical Properties
- Microwave Module

#### 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
	GT1265				
DK	2.65±0.05	Z	-	10 GHz/23°C	IPC-TM-650 2.5.5.5
DF	0.002				
		0.003	Z	-	10 GHz/23°C
Temperature coefficient of Dk	-25	Z	ppm/°C	-50 -- 150°C	IPC-TM-650 2.5.5.5
Volume Resistivity	2.2*10 <sup>7</sup>	XY	MΩ*cm	COND A	IPC-TM-650 2.5.17.1
Surface Resistivity	3.3*10 <sup>7</sup>		MΩ	COND A	IPC-TM-650 2.5.17.Q
Tensile Strength	182		Mpa(kpsi)	RT	ASTM D638
	26				
Bending Strength	263		Mpa(kpsi)		IPC-TM-650 2.4.4
	37				
Dimensional Stability	<0.5		mm/m		IPC-TM-650 2.4.39A
CTE	17/17/25	X/Y/Z	ppm/°C	-55 -- 288°C	IPC-TM-650 2.4.41
TD	500				ASTM D3850
Thermal Conductivity	0.5	-	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 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:

### GONTCERA Global Sales Center

Addr.: GOSPELL Industrial Park, Guanshandong Street, Suxian District, Chenzhou, Hunan Province, China

TEL: +86-735-2666666-8636

Mobile: +86-18073548780

FAX: 86-0735-2659922

E\_mail: [dengwl@gospell.com](mailto:dengwl@gospell.com)

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