

G-T1300

PTFE High Frequency Copper-Clad-Laminate



Product Overview

GT1300 laminate is a product of special enforcement by glass fibre composed with PTFE; it is a kind of circuit board material which can carry out a lot of information processing under UHF (GHz). Good performance stability with its low Dk and Df. Good for mechanical operation, better electronic performance stability. Microwave includes planar and non-planar structure, such as antenna, complex multilayer circuit, interlayer connection and microwave circuit for the design of aerospace.

Main Features

- Excellent High Frequency Performance
- Antenna Positioning Systems
- Adapt To Complex Multilayer High Frequency
- Wireless Communication System
- Excellent Electrical Performance and Machining Performance

Technical Specifications

Specifications Laminates		
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)

Test Performance					
Performance	Typical Value	Direction	Unit	Treatment Condition	Test Method
	GT1300				
DK	3.0±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	1.9*10 ⁷	XY	MΩ*cm	COND A	IPC-TM-650 2.5.17.1
Surface Resistivity	2.5*10 ⁷		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	17/17/28	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	2.1		gm/cm ³	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:

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

©2016 GOSPELL Digital Technology Co., Ltd. All rights reserved.

The GOSPELL, GONTCERA logo are trademarks of GOSPELL Digital Technology Co., Ltd.,

All other trademarks mentioned in this document are the property of their respective owners.

Product pictures are for reference only, GOSPELL reserves the right to modify the specifications without prior notice.

GONTCERA[®]