

G-T3150

C5 hydrocarbon resin High Frequency Copper-Clad-Laminate



Product Overview

GT3150 is a laminate of special enforcement by glass fiber filled with C5 hydrocarbon resin, its low Dk, low Df and stable Dk is suitable for UWB applications, and it has excellent machining performance and the processing technic of printed-circuit board, which is similar to traditional laminates FR-4.

Main Features

- Low Dk
- Wireless Communication Network
- Low Df
- Satellite Communication Devices
- Low CTE
- Microwave Antenna
- Excellent Dimensional Stability

Technical Specifications

Physical		
standard thickness	standard size	standard copper foil
0.010" (0.254mm)	48 X 36 (1220mm*914mm)	½ oz. (18µm) HTE (H/H)
0.020" (0.508mm)	36 X 24 (914mm*610mm)	1 oz. (18µm) HTE (H/H)
0.030" (0.762mm)	24 X 18 (610mm*457mm)	½ oz. (18µm) RTF (H/H)
0.060" (1.524mm)	18 X 12 (457mm*305mm)	1 oz. (35µm) RTF (1/1)

Test Performance					
Performance	Typical Value	Direction	Unit	Treatment Condition	Test Method
	GT3150				
DK	3.5±0.05	Z	-	10 GHz/23°C	IPC-TM-650 2.5.5.5
	3.65				
DF	0.004	Z	-	10 GHz/23°C	IPC-TM-650 2.5.5.5
Volume Resistivity	1.4*10 ¹³	XY	MΩ*cm	COND A	IPC-TM-650 2.5.17.1
Surface Resistivity	5.7*10 ¹⁴		MΩ	COND A	IPC-TM-650 2.5.17.1
Dielectric strength	29	Z	Kv/mm	0.511m	IPC-TM-650 2.5.6.2
Tensile Strength	145		Mpa(kpsi)	RT	ASTM D638
	21				
Bending Strength	298		Mpa(kpsi)		IPC-TM-650 2.4.4
	43				
Dimensional Stability	<0.5		mm/m		IPC-TM-650 2.4.39A
CTE	17/19/38	X/Y/Z	ppm/°C	-55 -- 288°C	IPC-TM-650 2.4.41
Tg	>180		°CTMA	A	IPC-TM-650 2.4.24
Td	390		°CTMA		ASTM D3850
Water Absorptio	0.65	-	W/m/K	80°C	ASTM C518
Water Absorptio	<0.30		%	D24/23	ASTM D570
Density	1.8		gm/cm ³	23°C	ASTM D792
Typical Peel Strength	>1.1		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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