



Synamic8GX

(No ANSI) Halogen-free Ultra-low Loss & Heat Resistance Multilayer

FEATURES

- Low Dk/Df (10GHz): 3.66/0.0033
- High Tg (DMA): 210°C
- Lower X/Y-CTE <11.0ppm/°C
- Excellent anti-CAF performance
- Good PTH and ELIC reliability

APPLICATIONS

- Ultra-high speed network equipment
- Server, switch, storage, routers
- High performance computing
- High frequency measuring instruments
- Optical communication products.

GENERAL PROPERTIES

Test Items	Test Method	Test Condition	Unit	Typical Value	
Tg	IPC-TM-650 2.4.24.4	DMA	°C	210	
	IPC-TM-650 2.4.25D	TMA		200	
Td	IPC-TM-650 2.4.24.6	TGA (5% wt. loss)	°C	430	
T300	IPC-TM-650 2.4.24.1	TMA	min	>120	
X/Y- axis CTE	IPC-TM-650 2.4.24c	TMA (50~125°C)	ppm/°C	11/11	
Z - axis CTE	IPC-TM-650 2.4.24	Before Tg	ppm/°C	35	
	IPC-TM-650 2.4.24	After Tg	ppm/°C	180	
	IPC-TM-650 2.4.24	50-260°C	%	1.6	
Permittivity (Dk)	1GHz	IPC-TM-650 2.5.5.9	C-24/23/50	-	3.62
	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	3.66
	10GHz	IEC61189-2-721	C-24/23/50	-	3.98
Loss Tangent (Df)	1GHz	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.0016
	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	0.0033
	10GHz	IEC61189-2-721	C-24/23/50	-	0.0041
Peel Strength (1oz, RTF2)	IPC-TM-650 2.4.8	288°C/10s	N/mm [lb/in]	0.85 [4.7]	
Water Absorption	IPC-TM-650 2.6.2.1	D-24/23	%	0.08	
Flammability	UL94	C-48/23/50	Rating	V-0	

Remarks:

1. All the typical value is based on the 30mil (6*2116) thickness specimen, but not guarantee data.
2. All the typical value listed above is for your reference only, please turn to Shengyi Technology Co., Ltd. for detailed information, and all rights from this data sheet are reserved by Shengyi Technology Co., Ltd.