



Synamic 6

Very Low Loss & Heat Resistance Multilayer Material

FEATURES

- High Tg and high Td
- Excellent thermal reliability
- Excellent anti-CAF performance
- Low Dk/Df (@10GHz): 3.58/0.0036
- Lower Z-axis CTE, offering superior PTH reliability

APPLICATIONS

Ultra high speed network equipment,
Server, Switch, Storage, Routers and BBU of
Base station, 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	DSC		190
Td		IPC-TM-650 2.4.24.6	TGA (5% W.L)	°C	405
T288		IPC-TM-650 2.4.24.1	TMA	min	120
T260		IPC-TM-650 2.4.24.1	TMA	min	60
Thermal Stress		IPC-TM-650 2.4.13.1	288°C, solder dip	-	Pass
Humidity Resistant		-	85°C/85%RH, 168hr, 288°C/10sec, Dipping	cycle	>10
CTE (Z-axis)		IPC-TM-650 2.4.24	Before Tg	ppm/°C	55
		IPC-TM-650 2.4.24	After Tg	ppm/°C	230
		IPC-TM-650 2.4.24	50-260°C	%	2.0
Permittivity	1GHz	IPC-TM-650 2.5.5.9	C-24/23/50	-	3.64
	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	3.58
	10GHz	IEC61189-2-721	C-24/23/50	-	3.92
Loss Tangent	1GHz	IPC-TM-650 2.5.5.9	C-24/23/50	-	0.0021
	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	0.0036
	10GHz	IEC61189-2-721	C-24/23/50	-	0.0046
Peel Strength (1oz)		IPC-TM-650 2.4.8	288°C/10s	N/mm [lb/in]	0.85 [4.86]
Water Absorption		IPC-TM-650 2.6.2.1	D-24/23	%	0.09
Flammability		UL94	C-48/23/50	Rating	V-0

Remarks : 1. All the typical value is based on the 0.76mm (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.