



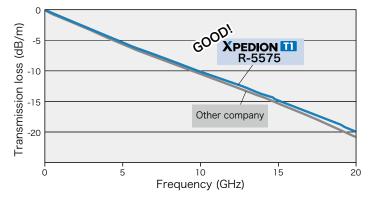


Laminate **Prepreg** R-5575 R-5470

High thermal conductivity, low transmission loss Halogen-free multi-layer circuit board materials

Leveraging multi-layer processability, low transmission loss, high thermal conductivity and Halogen-free, these materials are suitable for miniaturized and 5G small cell PCBs.

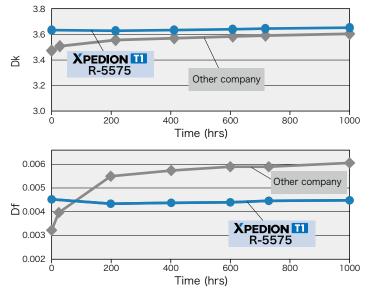
Frequency dependence by transmission loss





Item	R-5575	Other company	
Line length	1000mm	1000mm	
Impedance	50±1Ω	50±1Ω	
Copper thickness	18 μ m→ +20 μ m plating	18 μ m→ +20 μ m plating	
Copper	RT	ST	
Core	0.5mm	0.5mm	

Long-term stability under high temperature (Dk, Df)



- · Measurement method : Balanced-type circular disk resonator method
- · Aging temperature: 125°C (without humidity control)
- · Measurement frequency: 18GHz

General properties

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Item		Test method	Condition	Unit	XPEDION III R-5575	Other company		
Tg		DMA	А	$^{\circ}$	245	Tg less		
CTE z-axis	α1/α2	IPC-TM-650 2.4.24	А	ppm/°C	20/155	21/42		
T288(with copper)		IPC-TM-650 2.4.24.1	А	min	>120	>120		
Thermal conductivity		Laser flash	А	W/m·K	0.6	0.6		
Dk	- 13GHz	Balanced-type circular	C-24/23/50	-	3.60	3.5		
Df		disk resonator method			0.0045	0.004		
Peel strength*	1oz(35μm)	IPC-TM-650 2.4.8	А	kN/m	0.80	0.58		

The sample thickness is 0.5mm.

Please see our website for Notes before you use

Our Halogen-free materials are based on JPCA-ES-01-2003 standard and others. The above data are typical values and not guaranteed values.

^{*} RT Copper