

**Dk 4.0 Df 0.013
@10GHz**

Tg(DSC) 170°C

**Halogen-free
Lead-free soldering**

**Applications
Network**

ICT infrastructure equipment, Measuring instrument, etc.

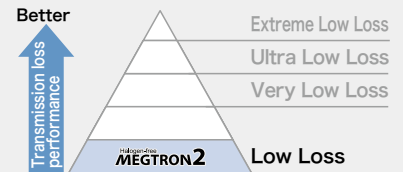


Halogen-free
MEGTRON2

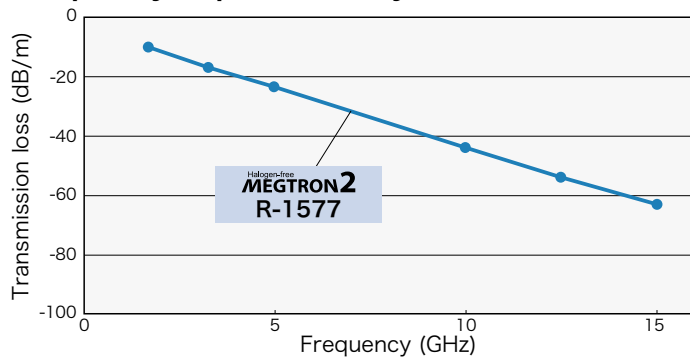
Laminate Prepreg
R-1577 R-1570

**Halogen-free Low transmission loss
Highly heat resistant multi-layer
circuit board materials**

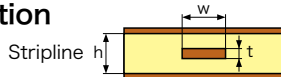
Halogen-free High Tg material suitable for large volume high speed data transmission.



Frequency dependence by Transmission loss



Construction



Trace width (w)	0.1mm
Trace thickness (t)	0.035mm
Dielectric thickness (h)	0.28mm
Core	0.13mm
Prepreg	0.06mm x 2ply
Line length	1m
Impedance	50Ω

Heat resistance of High Multilayer

Result

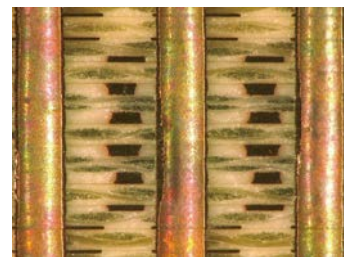
Drill diameter	φ0.3mm		
Wall to wall distance	0.5mm	0.6mm	0.7mm
MEGTRON2	pass	pass	pass

Condition

260°C reflow x 10 times

Construction

28 Layers
Board thickness: 3.8mm



General properties

Item	Test method	Condition	Unit	MEGTRON2 R-1577	
Tg	DSC	A	°C	170	
CTE z-axis	IPC-TM-650 2.4.24	A	ppm/°C	α1	34
				α2	200
T288(with copper)	IPC-TM-650 2.4.24.1	A	min	25	
Dk	10GHz	IPC-TM-650 2.5.5.5	C-24/23/50	-	4.0
Df					0.013
Peel strength	1oz(35μm)	IPC-TM-650 2.4.8	A	kN/m	1.3 [ST]

The sample thickness is 0.8mm.

Our Halogen-free materials are based on JPCA-ES-01-2003 standard and others.

Please see our website for Notes before you use.

The above data are typical values and not guaranteed values.

industrial.panasonic.com/ww/electronic-materials

Panasonic Industry MEGTRON2