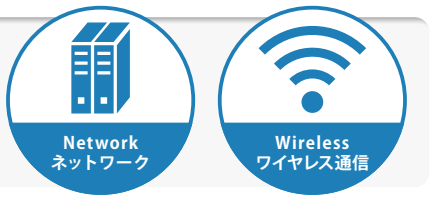
Ultra-low transmission loss Highly heat resistant Multi-layer circuit board materials
超低伝送損失・高耐熱多層基板材料

MEGTRON7

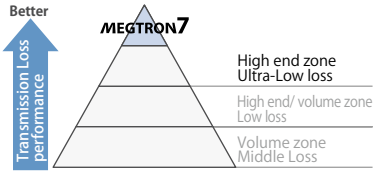
Laminate **R-5785(GN)** **R-5785(N)**
Prepreg **R-5680(GN)** **R-5680(N)**

Applications 用途

ICT infrastructure equipment, Supercomputer, Measuring instrument, Antenna(Base station, Automotive millimeter-wave radar), Etc.
ICT インフラ機器 (スーパーコンピュータ、計測用機器)、アンテナ (基地局、車載ミリ波レーダ)、高周波用途など



Suitable for high-speed large volume data transmission of server and router by our top-level low dielectric constant and dissipation factor.
Support super high multi-layer and large-size of PCB.
業界最高クラスの低誘電率・低誘電正接により大容量・高速伝送に対応し、大型高速サーバの性能向上に貢献。超高多層化・基板サイズの大型化にも対応

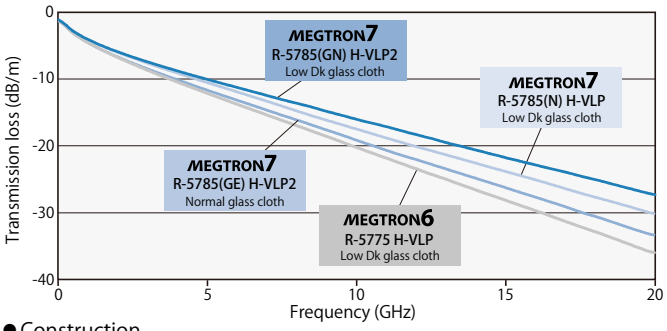


Dk 3.4 Df 0.002 @12GHz

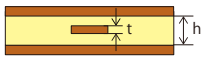
Tg (DSC) 200℃

T288 (with copper) >120min

Frequency dependence by Transmission loss 伝送損失比較



● Construction



Trace thickness (t)	18μm
Dielectric thickness (h)	300μm
Copper thickness	18μm
Inner treatment	No-surface treatment
Core	0.15mm (#1078 x 2ply)
Prepreg	0.15mm (#1078 x 2ply)
Line length	1000mm
Impedance	50Ω

Heat resistance of High Multi-layer 高多層耐熱性

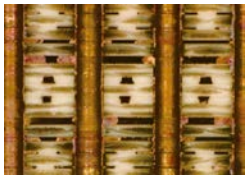
● Result

Drill diameter	φ0.3mm		
Wall to wall distance	0.4mm	0.5mm	0.6mm
R-5785(GN) Low Dk glass cloth/H-VLP2	pass	pass	pass
R-5785(N) Low Dk glass cloth/H-VLP	pass	pass	pass

● Condition
260℃ reflow x 20times

● Construction
32 Layers
Board thickness: 4.5mm


R-5785 (GN)


R-5785 (N)

General properties 一般特性

Item		Test method	Condition	Unit	MEGTRON7 R-5785(GN) Low Dk glass cloth	MEGTRON7 R-5785(GE) Normal glass cloth	MEGTRON7 R-5785(N) Low Dk glass cloth
Glass transition temp.(Tg)		DSC	A	℃	200	200	200
CTE z-axis	α1	IPC-TM-650 2.4.24	A	ppm/℃	42	42	42
	α2				280	280	280
T288(with copper)		IPC-TM-650 2.4.24.1	A	min	>120	>120	>120
Dielectric constant(Dk)	12GHz	Balanced-type circular disk resonator	C-24/23/50	—	3.4	3.6	3.4
Dissipation factor(Df)					0.002	0.003	0.002
Peel strength*	1oz(35μm)	IPC-TM-650 2.4.8	A	kN/m	0.8	0.8	0.8

The sample thickness is 0.75mm.
* R-5785(GN), R-5785(GE): H-VLP2, R-5785(N): H-VLP Copper

The above data are typical values and not guaranteed values. 上記データは当社測定による代表値であり、保証値ではありません。
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