

TEM96A

Thermal Conductive RF Absorber Pad

LiPOLY TEM96A is a thermally conductive absorber based upon soft magnetic materials dispersed in a polymeric resin. It has a thermal conductivity of 2.0 W/m*K and dissipates electromagnetic radiation rapidly to mitigate against EMI issues.

■ FEATURES

/ Thermal conductivity: 2.0 W/m*K

- / Excellent absorption characteristics
- / Naturally tacky
- / Reworkable

■ TYPICAL APPLICATION

/ IC, CPU, MOS, LED, M/B, Heat sink / LCD-TV, Notebook PC, PC, Telecom device, Wireless hub / DDR II module, DVD applications, Hand-set applications / 5G base station & infrastructure / EV electric vehicle

■ SPECIFICATIONS

/ Sheet form / Die-cut parts

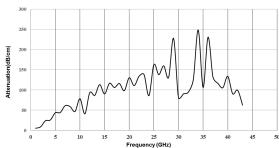
■ FREQUENCY APPLICATION

2.4 GHz Wi-Fi Router, Bluetooth
3.5 GHz 5G Mobile Networks
5.0 GHz Wi-Fi Router
12~18 GHz Low Earth Orbit (LEO) System
28 GHz 5G Mobile Networks
39 GHz 5G Mobile Networks

TYPICAL PROPERTIES

PROPERTY	TEM96A	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	4.4	ASTM D792	g/cm³
Hardness	40	ASTM D2240	Shore OO
TML	0.14	By LiPOLY	%
Water absorption	0.04	ASTM D570	%
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	21	ASTM D5470 modify	%
Deflection @20 psi	28	ASTM D5470 modify	%
Deflection @30 psi	34	ASTM D5470 modify	%
Deflection @40 psi	39	ASTM D5470 modify	%
Deflection @50 psi	43	ASTM D5470 modify	%
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	16.6	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	24.0	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	43.5	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	93.8	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	116	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	131	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz	106	ASTM D4935 modify	dB/cm
ELECTRICAL			
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>1010	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	2.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.762	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.692	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.614	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.562	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.530	ASTM D5470	°C-in²/ W
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Attenuation



Thermal Resistance vs. Pressure vs. Deflection

