

TEM96C

Thermal Conductive RF Absorber Pad

LiPOLY TEM96C is a thermally conductive absorber based upon soft magnetic materials dispersed in a polymeric resin. It has a thermal conductivity of 4.0 W/m*K and dissipates electromagnetic radiation rapidly to mitigate against EMI issues.

FEATURES

- / Thermal conductivity: 4.0 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

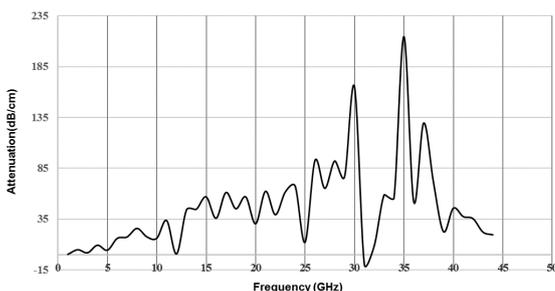
FREQUENCY APPLICATION

- 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	TEM96C	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.6	ASTM D792	g/cm ³
Hardness	55	ASTM D2240	Shore OO
TML	0.04	By LiPOLY	%
Water absorption	0.04	ASTM D570	%
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	11	ASTM D5470 modify	%
Deflection @20 psi	15	ASTM D5470 modify	%
Deflection @30 psi	21	ASTM D5470 modify	%
Deflection @40 psi	25	ASTM D5470 modify	%
Deflection @50 psi	30	ASTM D5470 modify	%
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	7.0	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	6.7	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	15.8	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	43.7	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	56.8	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	76.6	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz	45.5	ASTM D4935 modify	dB/cm
ELECTRICAL			
Surface resistivity	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	4.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.462	ASTM D5470	°C-in ² / W
Thermal impedance@20 psi	0.426	ASTM D5470	°C-in ² / W
Thermal impedance@30 psi	0.404	ASTM D5470	°C-in ² / W
Thermal impedance@40 psi	0.387	ASTM D5470	°C-in ² / W
Thermal impedance@50 psi	0.353	ASTM D5470	°C-in ² / W

Attenuation



Thermal Resistance vs. Pressure vs. Deflection

