

THER TEM96B-3-45

Thermal Conductive RF Absorber Pad

Patron THER TEM96B-3-45 is a thermally conductive absorber based upon soft magnetic materials dispersed in a polymeric resin. It has a thermal conductivity of 3.0 W/m²K and dissipates electromagnetic radiation rapidly to mitigate against EMI issues.

FEATURES

/ Thermal conductivity: 3.0 W/m²K /
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

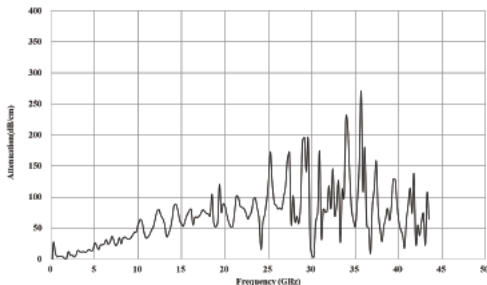
SPECIFICATIONS

/ 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
6.0 GHz Wi-Fi Router
12~18 GHz Low Earth Orbit (LEO)
System 28 GHz 5G Mobile Networks
39 GHz 5G Mobile Networks

Attenuation



HOW TO ORDER

Patron THER TEM96B-3-45 XXX-YYY-ZZmm

XXX = width in mm

YYY = depth in mm

ZZ = thickness in mm

<https://www.patron-components.com/>

TYPICAL PROPERTIES

PROPERTY	TEM96B	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	0.5~5.0	ASTM D374	mm
Density	3.9	ASTM D792	g/cm ³
Hardness	45	ASTM D2240	Shore OO
TML	0.07		%
Water absorption	0.04	ASTM D570	%
Application temperature	-60~180	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	7	ASTM D5470 modify	%
Deflection @20 psi	12	ASTM D5470 modify	%
Deflection @30 psi	16	ASTM D5470 modify	%
Deflection @40 psi	21	ASTM D5470 modify	%
Deflection @50 psi	25	ASTM D5470 modify	%
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	7.0	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	8.6	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	20.3	ASTM D4935 modify	dB/cm
EMI attenuation@ 6.0 GHz	24.1	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	52.5	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	70.8	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	75.0	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz	64.4	ASTM D4935 modify	dB/cm
ELECTRICAL			
Surface resistivity	>10 ¹¹	ASTM D257	Ohm
Volume resistivity	>10 ¹⁰	ASTM D257	Ohm-m
THERMAL			
Thermal conductivity	3.0	ASTM D5470	W/m ² K
Thermal impedance@10 psi	0.634	ASTM D5470	°C-in ² / W
Thermal impedance@20 psi	0.606	ASTM D5470	°C-in ² / W
Thermal impedance@30 psi	0.579	ASTM D5470	°C-in ² / W
Thermal impedance@40 psi	0.551	ASTM D5470	°C-in ² / W
Thermal impedance@50 psi	0.516	ASTM D5470	°C-in ² / W

Thermal Impedance vs. Pressure vs. Deflection

