

NT92

Non-Silicone Thermal Conductive RF Absorber Pad

LiPOLY NT92 is a thermally conductive absorber based upon soft magnetic materials dispersed in a non-silicone 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

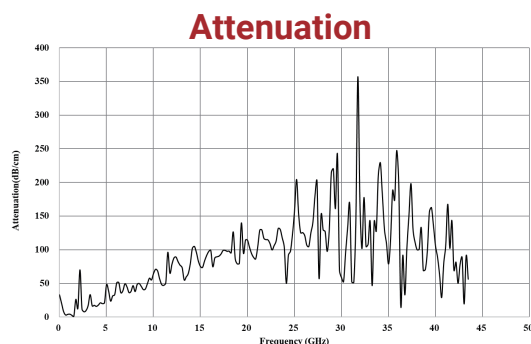
- / Sheet form
- / Die-cut parts

FREQUENCY APPLICATION

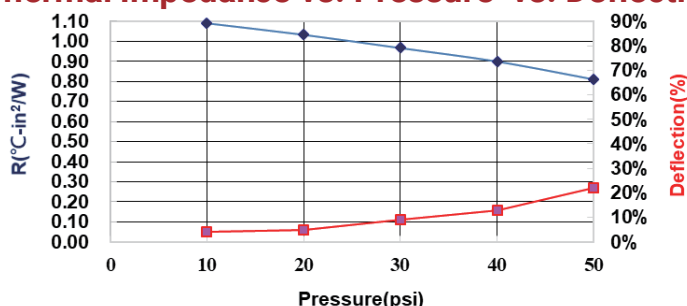
- 2.4 GHz Wi-Fi Router , Bluetooth
- 3.5 GHz 5G Mobile Networks
- 5.0 GHz Wi-Fi Router
- 6.0 GHz Wi-Fi Router
- 12~18 GHz Low Earth Orbit (LEO) System
- 28 GHz 5G Mobile Networks
- 39 GHz 5G Mobile Networks

TYPICAL PROPERTIES

PROPERTY	NT92	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	0.5~5.0	ASTM D374	mm
Density	4.2	ASTM D792	g/cm ³
Hardness	60	ASTM D2240	Shore OO
Application temperature	-60~125	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			
Deflection @10 psi	4	ASTM D5470 modify	%
Deflection @20 psi	5	ASTM D5470 modify	%
Deflection @30 psi	9	ASTM D5470 modify	%
Deflection @40 psi	13	ASTM D5470 modify	%
Deflection @50 psi	22	ASTM D5470 modify	%
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	26	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	30	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	49	ASTM D4935 modify	dB/cm
EMI attenuation@ 6.0 GHz	50	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	96	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	116	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	135	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz	113	ASTM D4935 modify	dB/cm
ELECTRICAL			
Surface resistivity	>10 ¹⁰	ASTM D257	Ohm
Volume resistivity	>10 ⁸	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	2.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	1.091	ASTM D5470	°C-in ² / W
Thermal impedance@20 psi	1.034	ASTM D5470	°C-in ² / W
Thermal impedance@30 psi	0.968	ASTM D5470	°C-in ² / W
Thermal impedance@40 psi	0.901	ASTM D5470	°C-in ² / W
Thermal impedance@50 psi	0.812	ASTM D5470	°C-in ² / W



Thermal Impedance vs. Pressure vs. Deflection



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