

NT93-s

Non-Silicone Thermal Conductive RF Absorber Pad

LiPOLY NT93-s is a thermally conductive absorber based upon soft magnetic materials dispersed in a non-silicone resin. It has a thermal conductivity of 3.0 W/m*K and dissipates electromagnetic radiation rapidly to mitigate against EMI issues.

FEATURES

- / Thermal conductivity: 3.0 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

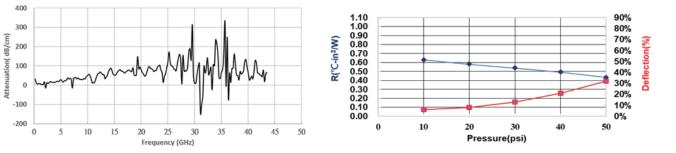
2.4 GHz Wi-Fi Router , Bluetooth
3.5 GHz 5G Mobile Networks
5.0 GHz Wi-Fi Router
6.0 GHz Wi-Fi Router
12~18 GHz Low Earth Orbit (LEO) System
28 GHz 5G Mobile Networks
39 GHz 5G Mobile Networks

TYPICAL PROPERTIES

PROPERTY	NT93-s	TEST METHOD	UNIT
Color	Dark Gray	Visual	-
Surface tack 2-side/1-side	2	-	-
Thickness	Customized	ASTM D374	mm
Density	3.7	ASTM D792	g/cm³
Hardness	65	ASTM D2240	Shore OO
Application temperature	-60~125	-	°C
ROHS & REACH	Compliant	-	-
COMPRESSION@1.0mm			'
Deflection @10 psi	6	ASTM D5470 modify	%
Deflection @20 psi	8	ASTM D5470 modify	%
Deflection @30 psi	13	ASTM D5470 modify	%
Deflection @40 psi	21	ASTM D5470 modify	%
Deflection @50 psi	32	ASTM D5470 modify	%
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	12	ASTM D4935 modify	dB/cm
EMI attenuation@ 3.5 GHz	14	ASTM D4935 modify	dB/cm
EMI attenuation@ 5.0 GHz	29	ASTM D4935 modify	dB/cm
EMI attenuation@ 6.0 GHz	25	ASTM D4935 modify	dB/cm
EMI attenuation@ 12 GHz	60	ASTM D4935 modify	dB/cm
EMI attenuation@ 18 GHz	71	ASTM D4935 modify	dB/cm
EMI attenuation@ 28 GHz	112	ASTM D4935 modify	dB/cm
EMI attenuation@ 39 GHz	68	ASTM D4935 modify	dB/cm
ELECTRICAL			
Surface resistivity	>1011	ASTM D257	Ohm
Volume resistivity	>1010	ASTM D257	Ohm-m
THERMAL			
Thermal Conductivity	3.0	ASTM D5470	W/m*K
Thermal impedance@10 psi	0.632	ASTM D5470	°C-in²/ W
Thermal impedance@20 psi	0.581	ASTM D5470	°C-in²/ W
Thermal impedance@30 psi	0.539	ASTM D5470	°C-in²/ W
Thermal impedance@40 psi	0.493	ASTM D5470	°C-in²/ W
Thermal impedance@50 psi	0.436	ASTM D5470	°C-in²/ W

Attenuation

Thermal Resistance vs. Pressure vs. Deflection



Note: All specifications provided by LiPOLY are subject to change without notice. The test methods used by LiPOLY are based on the TIM Tester method and ASTM D5470 test method. These test methods are used as the definition standards for LiPOLY. Property values provided in this document are not for product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific ourpose. The purchaser needs to evaluate and verify the performance of the product specifications or guaranteed. This document does not guarantee the performance and quality required for the purchaser's specific conditions. Liability and use of the product tand verify the performance of the product and verify the performance of the performance of the performance of the product and verify the performance of the performance of the performance of the product and verify the performance of the performance of the performance of the performance of the product and verify the performance of the perfo