

DTT18-s

Thermal Conductive RF Absorber Putty

LiPOLY DTT18-s is a single-component dispensable thermal EMI-absorbing material formulated by uniformly dispersing soft magnetic fillers in a polymer resin matrix, combining effective heat conduction and electromagnetic wave absorption to convert electromagnetic radiation into heat and dissipate it rapidly, thereby reducing EMI and improving system stability and reliability; it offers a thermal conductivity of 5.0 W/m·K and features excellent flexibility and conformability, allowing it to fill micro gaps and irregular surfaces, compensate for assembly tolerances, and enhance interfacial thermal performance.

FEATURES

- / Thermal conductivity: 5.0 W/m·K
- / Excellent electromagnetic wave absorption capability, effectively reducing EMI
- / High flexibility and conformability, filling microscopic gaps
- / Reduces contact thermal resistance, improving heat dissipation efficiency
- / Good application stability, preventing overflow and drying issues
- / Suitable for high-compression and low-stress applications

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

CONFIGURATIONS

- / Cartridges: 30ml, 55ml, 330ml
- / Bucket: 1kg, 25kg

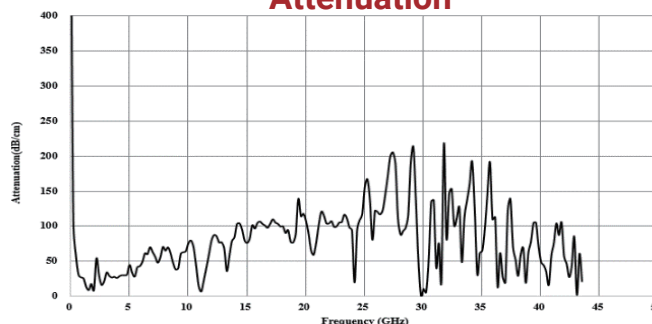
PRESERVATION

It can be preserved for 60 months under the condition of unopened and under room temperature 30°C.

TYPICAL PROPERTIES

PROPERTY	DTT18-s	UNIT	TEST METHOD
Color	Dark Gray	-	Visual
Resin base	Silicone	-	-
Viscosity	6500	Pa.s	DIN 53018
Flow Rate (30cc EFD tube, 2.35mm Orifice diameter, 90psi&60s)	14	g/min	Internal Test Method
Density	3.6	g/cm ³	ASTMD792
Application temperature	-60~180	°C	-
Bond line thickness	100~1500	μm	-
Shelf life	60 months	-	-
ROHS & REACH	Compliant	-	-
EMI Attenuation @1.0mm			
EMI attenuation@ 2.4 GHz	30.6	dB/cm	ASTMD4935modify
EMI attenuation@ 3.5 GHz	27.5	dB/cm	ASTMD4935modify
EMI attenuation@ 5.0 GHz	44.7	dB/cm	ASTMD4935modify
EMI attenuation@ 6.0 GHz	46.2	dB/cm	ASTMD4935modify
EMI attenuation@ 12 GHz	80.5	dB/cm	ASTMD4935modify
EMI attenuation@ 18 GHz	99.8	dB/cm	ASTMD4935modify
EMI attenuation@ 28 GHz	94.3	dB/cm	ASTMD4935modify
EMI attenuation@ 39 GHz	66.6	dB/cm	ASTMD4935modify
ELECTRICAL			
Surface resistivity	>10 ¹¹	Ohm	ASTMD257
Volume resistivity	>10 ¹⁰	Ohm-m	ASTMD257
THERMAL			
Thermal conductivity	5.0	W/m·K	ASTMD5470
Thermal impedance@10psi / 60°C	0.093	°C-in ² / W	ASTMD5470
Thermal impedance@30psi / 60°C	0.082	°C-in ² / W	ASTMD5470
Thermal impedance@50psi / 60°C	0.078	°C-in ² / W	ASTMD5470

Attenuation



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