

Mector[®] HT Series

HT Series High Thermal Conductivity Absorbent powder

Mector™ HT Series High-Thermal-Conductivity Powder Materials are independently developed by Wave Vector New Materials, serving as raw material powders with dual-function properties of electromagnetic wave absorption and thermal conduction. Composed of self-developed soft magnetic wave-absorbing agents (mainly Fe-, Ni-, Co-based alloys) and chemically resistant thermal conductive agents (primarily Al₂O₃, BN, AlN and other materials), they are processed via physical and chemical methods to achieve optimal magnetic, electrical and thermal management performance. The wave-absorbing and thermally conductive powders can absorb leaked electromagnetic radiation to eliminate electromagnetic interference, while converting a large amount of absorbed electromagnetic wave energy into heat and rapidly transferring the heat to heat sinks.

Product Features & Advantages

- High filling capacity, high spheroidization rate and good dispersibility;
- Composite dual functions of thermal conduction and wave absorption, multi-dimensional synergistic loss powder;
- Halogen-free and eco-friendly, complying with EU RoHS Directive, REACH and other regulatory requirements.

Typical Applications

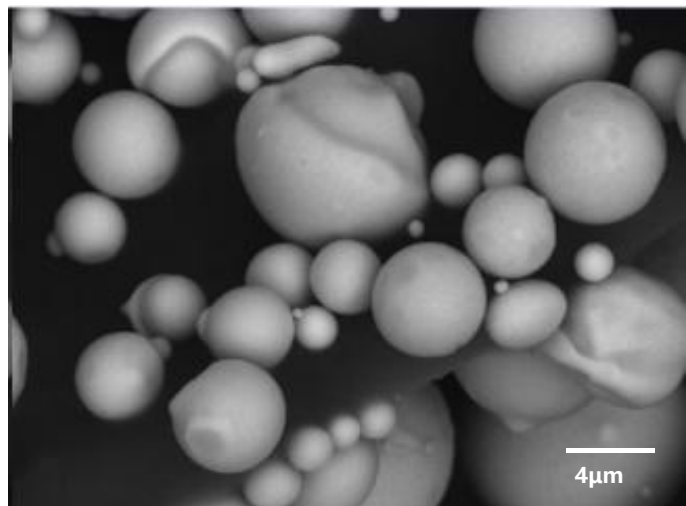
- Wave-absorbing & thermally conductive gaskets, gels, thermal greases;
- End devices: routers, switches, base stations.

Supply Form

- 25 kg per drum;
- Please provide model and packaging requirements upon inquiry.

Usage Method

- Reflection loss (RL) is measured using sheets with thicknesses of 1.0 mm and 2.0 mm respectively;
- Direct application is available based on customer-specific conditions.

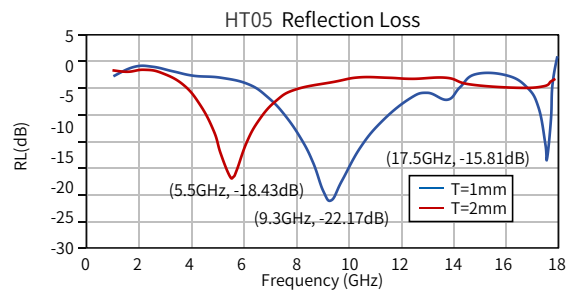
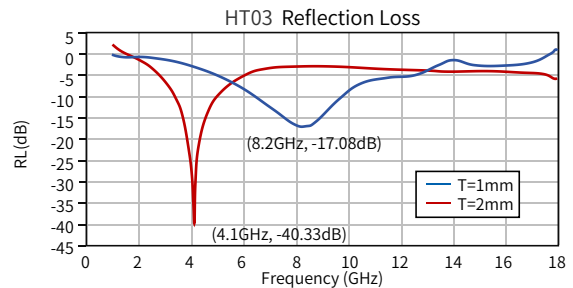
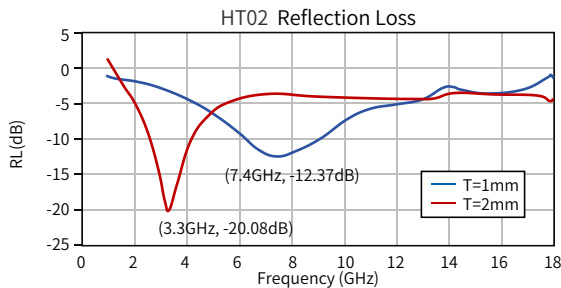


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Item	HT02	HT03	HT05	Test Standard
A.D (g/cm ³)	1.5 - 2.5	1.5 - 2.5	1.6 - 2.4	GB/T 1479.2-2011
T.D (g/cm ³)	2.5 - 4.0	2.5 - 4.0	2.5 - 4.0	GB/T 5162-2006
D50 (μm)	2.0 - 8.0	3.0 - 9.0	4.0 - 10.0	GB/T 19077.1-2008
Hardness (Shore OO)	50 - 80	50 - 80	50 - 80	ASTM D2240
Thermal conductivity (W/m · K)	2.0	3.0	5.0	ASTM-D5470
Absorption peak (dB)	-12.37	-17.08	-22.16	GJB 2038A-2011
Center frequency (GHz)	7.0	8.0	9.0	GJB 2038A-2011
Operating frequency (Hz)	2 - 18G	2 - 18G	2 - 18G	GJB 2038A-2011
Shipping specifications (customizable)	25 kg/barrel			
Storage conditions	5 - 40°C/ (60±10) %RH			
shelf life	36 months			

Note: The data provided is solely for the reference of design engineers. The performance mentioned above represents the performance range of the series of products. Variations may occur in different models of products and in different application environments. Engineers should conduct tests based on the actual environment.



Coding Rules

HT 02 - X

① ② ③

- ① Product category: HT = High Thermal Conductivity and Wave Absorption
- ② Thermal conductivity: 02=thermal conductivity 2.0
- ③ Special code: such as different formula systems or special requirements