

Dispensable Hybrid Thermal/EMI Absorber

CoolZorb™ D 3W/1K



DISPENSABLE HYBRID THERMAL/EMI ABSORBER

CoolZorb™ D 3W/1K is a single part dispensable hybrid EM energy absorbing/thermal management material with thermal conductivity of 3.5 W/mK. This material is designed to be used like a traditional single part dispensable thermal interface material between heat sources, such as a high-power IC, and heatsinks or other heat transfer devices or metal chassis. CoolZorb™ D 3W/1K also functions to suppress unwanted energy coupling, resonances or surface currents causing board level EMI issues. It is vertically reliable which makes it suitable for equipment and devices that will be installed and used in any orientation.

FEATURES AND BENEFITS

- Good thermal conductivity
- Great EMI suppression over wide frequency range, particularly 20GHz and above
- One-part dispensable thermal interface material for high volume production
- Compliant with minimal component stress during assembly
- Passes UL94V0 requirements

PROPERTIES	TYPICAL VALUE	METHOD
Color	Grey	Visual
Thermal Conductivity	3.5 W/mK	Hot Disk
Flow Rate	70 g/min	Laird Test Method – A16724-00
Temperature Range	-40°C – 150°C	Laird Test Method
Volume Resistivity	1.0 X 10 ¹³ Ohm-cm	ASTM D257
Outgassing (TML/CVCM)	0.09 wt%/0.03 wt%	ASTM E595
Flammability	V-0 (Pending)	UL 94
Dielectric Breakdown	2 kV/mm	ASTM D149
Minimum Bond Line Thickness	0.05 mm	Laird Test Method – A16112-00

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MFS-DS-Coolzorb D 3W/1K_20220320

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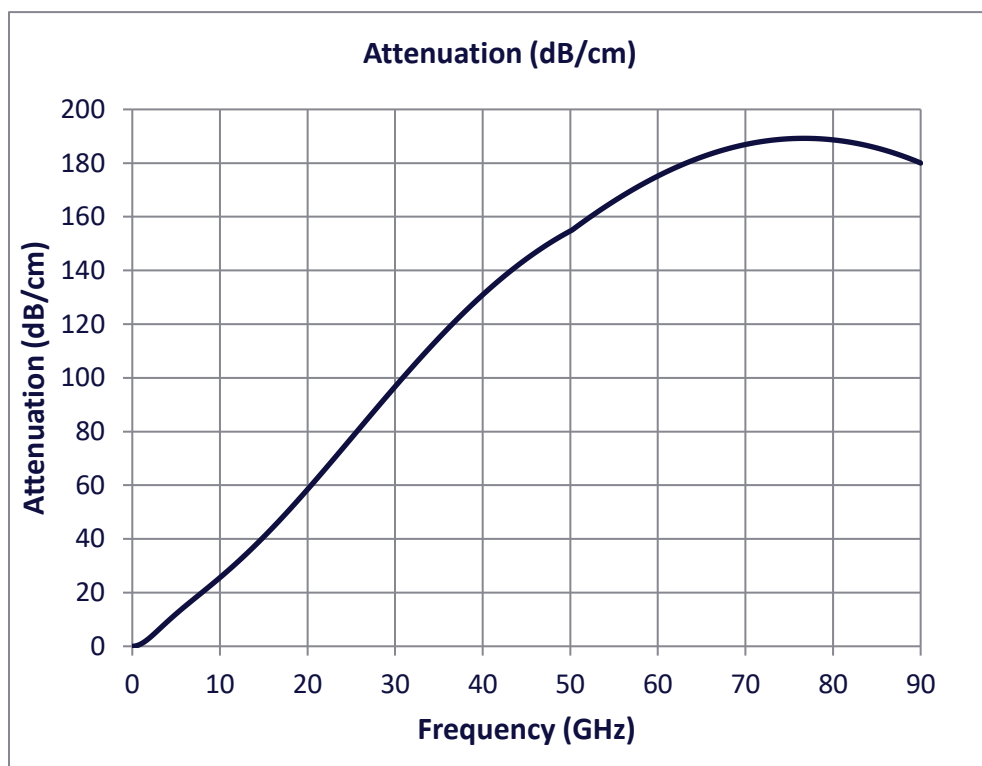
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VALUE

- Performance advantage comes from dual functional properties of thermal conductivity and EMI mitigation
- Improved reliability performance of electronics
 - Better signal integrity due to reduction of EMI
 - Consistent performance of electronics due to temperature stability and low outgassing properties of product
- Improved EMC performance to meet compliance requirements
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

CoolZorb[™] D 3W/1K Attenuation (dB/cm)



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AVAILABILITY

- Standard size in aluminum cartridges (300cc) and pails (9kg)
- 30cc syringe samples available

PART NUMBER SYSTEM

A17845-10	30cc, Syringe
A18440-07	300cc Aluminum Cartridge
A18441-03	9kg, 1 gallon Steel Pail

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