



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





HYBRID THERMAL/EMI ABSORBER

CoolZorb T 500 is a thin version hybrid absorber, thermal management material that is used for both heat transfer and EMI mitigation.

CoolZorb T 500 product is used like a traditional thermal interface material between heat source such as an IC and heat sink or other heat transfer device or metal chassis and also functions to suppress unwanted energy coupling, resonances or surface currents causing board level EMI issues.

FEATURES AND BENEFITS

- Designed specifically for thin applications less than 1mm
- Silicone gel binder imparts inherent tack typical of thermal gap fillers
- Filler particles impart good thermal conductivity and excellent EMI suppression in the microwave frequency range
- CoolZorb T 500 passes UL 94 V0 requirements
- Does not require adhesive when used like a traditional thermal interface material

VALUE

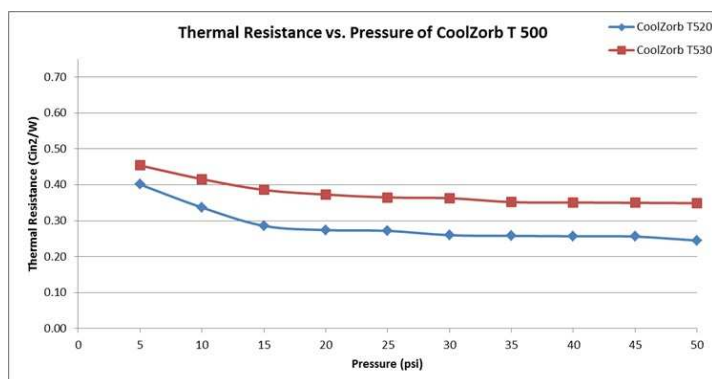
- Lower BOM and Design cost - Reduces EMI issues due to capacitive coupling of heat sinks
- Lower BOM and Design cost - Dual function improves design, assembly, cost of ownership
- Customer Perceived Value - Improved reliability performance of electronics
 - Better signal integrity due to reduction of EMI
 - Consistent performance of electronics due to temperature stability and low outgassing properties of product
- Time to Market - Improved EMC performance / lower cost to meet compliance
- Corporate Social Responsibility - Environmentally friendly solution that meets regulatory requirements including RoHS and REACH directives

TYPICAL PROPERTIES	DATA	TEST METHOD
Color	Dark gray	Visual
Thermal conductivity	4.0W/m-K	ASTM D5470
Density	3.4 g/cc	ASTM D792
Hardness (3 sec)	75 Shore 00	ASTM D2240
Tensile strength	36.2 psi	ASTM D638
Temperature Range	-40°C to 175°C	NA
UL Flammability	UL 94 V-0	UL
Volume resistivity	4.4 x 10 ¹³ Ω*cm	ASTM D257
Outgassing (TML)	0.34%	ASTM E595-07
Outgassing (CVCM)	0.03%	ASTM E595-07
Coefficient of Thermal Expansion (CTE)	pending μm/mC	IPC-TM-650 2.4.41
EMI Attenuation @ 10 GHz	23.9 dB/cm	
EMI Attenuation @ 18 GHz	25.5 dB/cm	
Standard Thickness range	0.020" - 0.030" (0.5-0.75mm)	
Thickness Tolerance	+/- 10% of nominal	

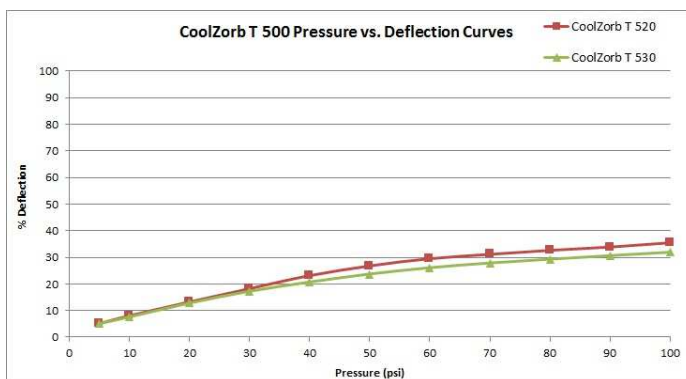


Hybrid Thermal/EMI Absorber

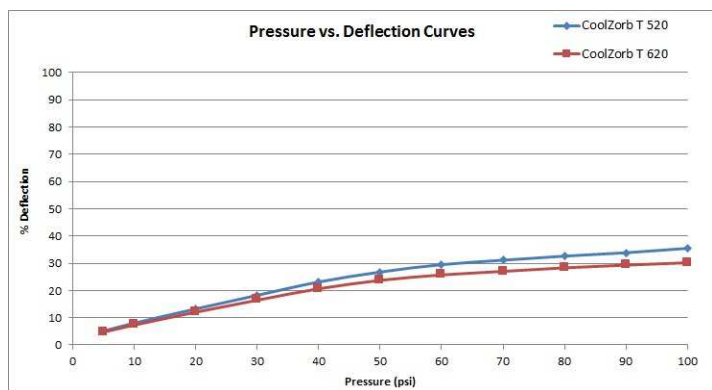
CoolZorb T 500 Thermal resistance at 50C (ASTM D5470)



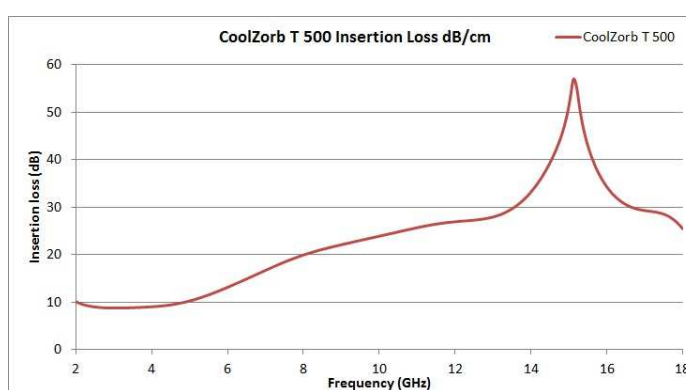
CoolZorb T 500 Percent Deflection (ASTM D575)



CoolZorb Deflection Comparison (ASTM D575)



CoolZorb Attenuation (dB/cm)



AVAILABILITY

- Standard sheet size is 18" X 18"
- Thickness availability range is 0.020" - 0.030" (0.5mm- 0.75mm)
- Common standards for thickness are 0.020" and 0.030" thickness (0.5mm and 0.75mm)
- No charge samples are available in 4" X 4" size for each of the above common thicknesses

PART NUMBER SYSTEM

- CoolZorb T 500 series absorber sheets (18"X18") use the following designation when ordering: A17554-XXX where XXX is thickness of absorber in thousands of an inch
- CoolZorb T 500 series no charge absorber samples (4"X4") use the following designation when ordering: CZ500-XXXS where XXX is thickness of absorber in thousands of an inch
- Example: A17554-020 = CoolZorb T 500, 0.020"X18"X18" sheet size; Example: CZ500-030S = CoolZorb T 500, 0.030"X4"X4" no charge sample size

RFP-DS-COOLZORB T 500 010518

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.