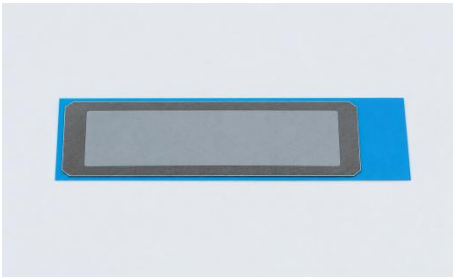
Version: V0

Pluggable PCM TPC95Series

TPC95 series is a pluggable thermally conductive Phase Change Material (PCM), offers multiple pluggable performance. It is designed to minimize thermal resistance at interfaces, maintain excellent performance through reliability testing, and provide scalable application at a competitive cost.

Product Features and Advantages

- Lowers optical modules operating temperature
- Durability,no tearing or breaking during insertion and removal
- Excellent adhesion properties
- Excellent surface wetting for low contact resistance



Typical Properties

Property		Unit	Typical Value			Test Standard
Structure	Part Number	/	TPC95TP	TPC95BC	TPC95S	SG Internal Method
	Structure	/	PI	BeCu	Stainless Steel	
	Substrate Thickness	um	50	80	20	
Thermal Properties	Total Thermal impedance@10psi	℃·cm²/W	1.15	0.85	0.95	ASTM D5470
	Phase Change Point	℃	45			ASTM E794
	Usage Temperature	℃	-40~150			SG Internal Method
Physical Properties	Color	/	Gray			Visual Inspection
	PCM Thickness	mm	0.2			ASTM D374
Other Properties	Durability by human	Times	100			SG Internal Method
	Durability by machine	Times	1000			SG Internal Method
	Flame Retardant Rating	/	V0			UL94

Remarks: All data and information above shown are averages and should be considered as a reference only. Any specific application should be tested by customer. The data is subject to change without notice.

Storage & Shelf Life

- Shelf Life: Store in original carton at 70°F (21°C) and 50% relative humidity. If stored under proper conditions, product retains its performance and properties for 12 months from date of manufactures.

Availability

- Standard Size: Customized specifications available upon customer request;

Disclaimer:

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied, including the implied warranties, of merchantability and fitness for purpose: Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection there with. Nether seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct or indirect, incidental, or consequential, arising out of the use of or the inability to use product. No statement or recommendation not contained herein shall have any force or effect in an agreement signed by officers of seller or manufacturer.

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