

# DATASHEET AND OPERATING GUIDE

# THERM-PST

## Thermal Paste



### FEATURES & BENEFITS

- Paste form
- Spreads easily
- Excellent thermal conductivity -- up to 3.0 W / °C
- For use with multiple heat sink models
- Coverage area is approximately 4" by 6" (100 x 150 mm)

### GENERAL DESCRIPTION:

The thermal paste is offered as an accessory to several Wavelength Electronics product lines to help ensure adequate thermal control during operation.

THERM-PST is a non-silicone thermal compound. Comprised of proprietary poly synthetic fluid and zinc oxide, it spreads easily for excellent surface coverage and thermal conductivity.

Placement on the product surface will vary with Wavelength product and heat sink model selected.

### USED WITH

- HTC Series Temperature Controllers
- LDTCxx20 Series Laser Diode & Temperature Controllers
- LDTC2/2 Series Laser Diode & Temperature Controllers
- MPL Series Laser Diode Drivers
- MPT Series Temperature Controllers
- PLD5K-CH, PLD10K-CH, and PLD12.5K-CH Laser Diode Drivers
- PTC-CH Series Temperature Controllers
- RHM5K-CH Unipolar Temperature Controller

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### ORDERING INFORMATION

PART NO	DESCRIPTION
THERM-PST	Thermal Paste



## SAFE OPERATING AREA



TO DETERMINE IF THE THERMAL PASTE AND/OR A HEATSINK IS REQUIRED IN YOUR APPLICATION, IT IS IMPERATIVE THAT YOU VERIFY THE UNIT WILL BE OPERATING WITHIN THE INTERNAL HEAT DISSIPATION SAFE OPERATING AREA (SOA).

Visit the Wavelength Electronics website for the most accurate, up-to-date, and easy to use SOA calculator.

The SOA calculator for Laser Diode Drivers is at this page:

<http://www.teamwavelength.com/support/calculator/soa/soald.php>

The SOA calculator for Temperature Controllers:

<http://www.teamwavelength.com/support/calculator/soa/soatc.php>

## APPLYING THE PASTE

Thermal paste should be applied thinly and evenly across the mounting area. Refer to the individual product manual to determine the best location for thermal paste application.

## MATERIAL DATA AND SAFETY SPECIFICATIONS

<b>COMPOSITION -- Non-silicone</b>	
<b>Chemical Name</b>	<b>% Weight</b>
Poly Synthetic Fluid	>20
Zinc Oxide	>60
<b>STABILITY AND REACTIVITY</b>	
This product is stable under normal conditions. Avoid contact with all oxidizing agents. Carbon monoxide and carbon dioxide are hazardous decomposition products. Hazardous polymerization will not occur. Product is not sensitive to mechanical shock, but avoid high temperatures and ignition sources.	
<b>HAZARD IDENTIFICATION</b>	
There are no hazardous components present.	
<b>FIRST AID MEASURES</b>	
<b>Inhalation:</b>	Remove individual to fresh air. If breathing has been arrested, provide artificial respiration or oxygen. Keep patient warm. Obtain immediate medical attention. Not an expected route of entry. Overexposure may cause irritation of the mucous membranes and respiratory tract.
<b>Skin:</b>	Wash thoroughly with soap and water. Rinse thoroughly. Seek medical advice if contact was extensive. Prolonged direct skin contact may cause dermatitis or irritation.
<b>Eye Contact:</b>	Wash thoroughly with water while holding eyelids apart. Seek immediate medical attention. Overexposure to direct eye contact may cause redness, irritation, discomfort or tearing.
<b>Ingestion:</b>	May produce laxative effect. Seek immediate medical attention. Never give anything by mouth to an unconscious person. Symptoms may include: headache, dizziness, nausea, intestinal disorders, and unconsciousness. Not an expected route of exposure. Ingestion may cause abdominal pains, cramping, nausea, or vomiting.
<b>FIREFIGHTING MEASURES</b>	
<b>Flash Point:</b>	>400°F
<b>Fire Hazard:</b>	Not considered a potential fire and explosion hazard under normal operating conditions
<b>Extinguishing Media:</b>	Foam, dry chemical, or CO <sub>2</sub> . Water spray may be used to cool containers. Do not allow contaminated water to enter sewers or waterways.
<b>Firefighting Instructions:</b>	In case of fire, use normal fire fighting equipment including a NIOSH approved self-contained breathing apparatus (SCBA). Use water to cool containers.
<b>EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>	
Wear chemical goggles, gloves, and other protective clothing. Provide safety and hygiene equipment consistent with all applicable federal, state, and local regulations. General exhaust ventilation is usually sufficient for general worker safety and comfort.	
<b>HANDLING AND STORAGE</b>	
Store in a cool area away from ignition sources and oxidizers. Store in a tightly sealed container. KEEP OUT OF REACH OF CHILDREN.	

## CERTIFICATION AND WARRANTY

### CERTIFICATION

Wavelength Electronics, Inc. (Wavelength) certifies that this product met its published specifications at the time of shipment. Wavelength further certifies that its calibration measurements are traceable to the United States National Institute of Standards and Technology, to the extent allowed by that organization's calibration facilities, and to the calibration facilities of other International Standards Organization members.

### WARRANTY

This Wavelength product is warranted against defects in materials and workmanship for a period of one (1) year from date of shipment. During the warranty period, Wavelength will, at its option, either repair or replace products which prove to be defective.

### WARRANTY SERVICE

For warranty service or repair, this product must be returned to the factory. An RMA is required for products returned to Wavelength for warranty service. The Buyer shall prepay shipping charges to Wavelength and Wavelength shall pay shipping charges to return the product to the Buyer upon determination of defective materials or workmanship. However, the Buyer shall pay all shipping charges, duties, and taxes for products returned to Wavelength from another country.

### LIMITATIONS OF WARRANTY

The warranty shall not apply to defects resulting from improper use or misuse of the product or operation outside published specifications. No other warranty is expressed or implied. Wavelength specifically disclaims the implied warranties of merchantability and fitness for a particular purpose.

### EXCLUSIVE REMEDIES

The remedies provided herein are the Buyer's sole and exclusive remedies. Wavelength shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

### REVERSE ENGINEERING PROHIBITED

Buyer, End-User, or Third-Party Reseller are expressly prohibited from reverse engineering, decompiling, or disassembling this product.

### NOTICE

The information contained in this document is subject to change without notice. Wavelength will not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material. No part of this document may be translated to another language without the prior written consent of Wavelength.

## SAFETY

There are no other user-serviceable parts inside this product. Return the product to Wavelength for service and repair to ensure that safety features are maintained.

## LIFE SUPPORT POLICY

This important safety information applies to all Wavelength electrical and electronic products and accessories:

As a general policy, Wavelength Electronics, Inc. does not recommend the use of any of its products in life support applications where the failure or malfunction of the Wavelength product can be reasonably expected to cause failure of the life support device or to significantly affect its safety or effectiveness. Wavelength will not knowingly sell its products for use in such applications unless it receives written assurances satisfactory to Wavelength that the risks of injury or damage have been minimized, the customer assumes all such risks, and there is no product liability for Wavelength. Examples of devices considered to be life support devices are neonatal oxygen analyzers, nerve stimulators (for any use), auto-transfusion devices, blood pumps, defibrillators, arrhythmia detectors and alarms, pacemakers, hemodialysis systems, peritoneal dialysis systems, ventilators of all types, and infusion pumps as well as other devices designated as "critical" by the FDA. The above are representative examples only and are not intended to be conclusive or exclusive of any other life support device.

## REVISION HISTORY

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REV.	DATE	CHANGE
F	October 2013	Release in new format and extend warranty



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