



The Ceramic Plate (CP) Series of Thermoelectric Modules (TEMs) is considered 'the standard' in the thermoelectric industry.

This broad product line of high-performance and highly reliable TEMs is available in numerous heat pumping capacities, geometric shapes, and input power ranges. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the CP Series is designed for higher current and large heat-pumping applications.

FEATURES

- Precise Temperature Control
- Compact Geometric Sizes
- Reliable Solid-State Operation
- No Sound or Vibration
- Environmentally Friendly
- DC Operation
- RoHS Compliant

APPLICATIONS

- Medical Lasers
- Lab Science Instrumentation
- Clinical Diagnostic Systems
- Photonics Laser Systems
- Electronic Enclosure
 Cooling
- Food & Beverage Cooling
- Chillers (Liquid Cooling)

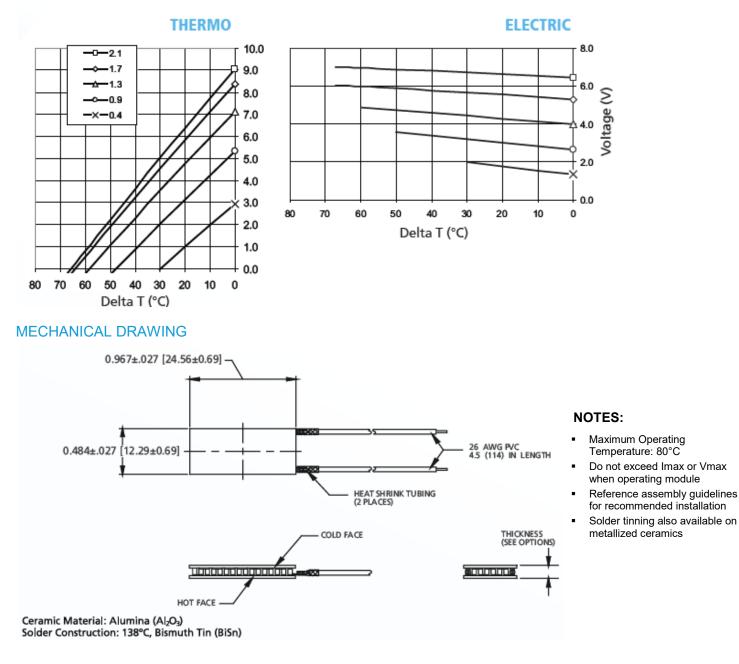
TECHNICAL SPECIFICATIONS					
Hot Side Temperature (°C)	25	50			
Qmax (W)	9.0	9.9			
Delta Tmax (°C)	67	75			
Imax (Amps)	2.1	2.1			
Vmax (Volts)	7.6	8.2			
Module Resistance (Ohms)	3.13	3.53			

SUFFIX	THICKNESS (PRIOR TO THINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
L	0.134"±0.010"	0.0015"/0.0015"	Lapped	Lapped	4.5"
L1	0.134"±0.010"	0.001"/0.001"	Lapped	Lapped	4.5"
L2	0.134"±0.0005"	0.0005"/0.0005"	Lapped	Lapped	4.5"
ML	0.138"±0.010"	0.002"/0.002"	Metallized	Lapped	4.5"
LM	0.138"±0.010"	0.002"/0.002"	Lapped	Metallized	4.5"
MM	0.142"±0.010"	0.002"/0.002"	Metallized	Metallized	4.5"

SEALING OPTIONS

SUFFIX	SEALANT	COLOR	TEMPERATURE RANGE	DESCRIPTION
RT	RTV	White	-60 to +204 °C	Non-corrosive, silicone adhesive
EP	Ероху	Black	-55 to +150 °C	Low density syntactic foam epoxy encapsulant

PERFORMANCE CURVES AT Th = 25° C



www.lairdthermal.com

RoHS

Laird warrants to the original end user customer of its products that its products are free from defects in material and workmanship. Subject to conditions and limitations Laird will, at its option, either repair or replace any part of its products that prove defective because of improper workmanship or materials. This limited warranty is in force for the useful lifetime of the original end product into which the Laird product is installed. Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase.

Any information furnished by Laird 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 materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials restored materials restored materials or products for any specific or general uses. Laird shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request.

© Copyright 2018 Laird Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird 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 or any third party intellectual property rights.