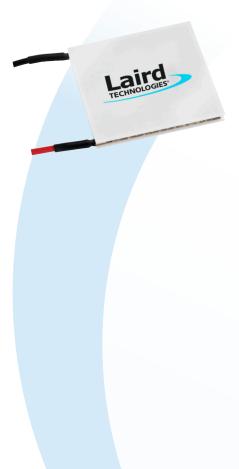


Ceramic Plate Series CP14,127,10 Thermoelectric Modules

Innovative **Technology** for a **Connected** World



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)

PERFORMANCE SPECIFICATIONS						
25°C	50°C					
33.4	36.7					
67	75					
3.9	3.9					
14.4	16.4					
3.44	3.88					
	33.4 67 3.9 14.4					

SUFFIX	THICKNESS (PRIOR TO TINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	Lead Length	
L	0.185"± 0.010"	0.002" / 0.002"	Lapped	Lapped	4.5″	
L1	0.185"± 0.001"	0.001" / 0.001"	Lapped	Lapped	4.5″	
L2	$0.185'' \pm 0.0005''$	0.0005" / 0.0005"	Lapped	Lapped	4.5″	
ML	0.189"± 0.010"	0.002" / 0.002"	Metallized	Lapped	4.5″	
LM	0.189"± 0.010"	0.002" / 0.002"	Lapped	Metallized	4.5″	
MM	0.193"± 0.010"	0.002" / 0.002"	Metallized	Metallized	4.5″	
CEALING ODTION						

SEALING OPTION

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

global solutions: local support ...

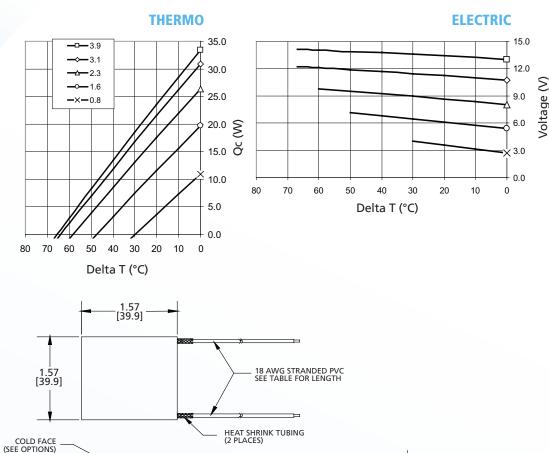
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Performance Curves at Th = 25°C

OPERATING TIPS

Solder Construction: 138°C, Bismuth Tin (BiSn)

Ceramic Material: Alumina (Al₂O₃)

HOT FACE (SEE OPTIONS)

- Max Operating Temperature: 80°C
- Do not exceed Imax or Vmax when operating module
- Reference assembly guidelines for recommended installation

(SEE OPTIONS)

THICKNESS

• Solder tinning also available on metallized ceramics

80000000000000008

THR-DS-CP14,127,10 0409

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