

# **Ceramic Plate Series CP2-127-06**

### Thermoelectric Modules



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.

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### **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 diagnostics systems
- Photonics laser systems
- Electronic enclosure cooling
- Food & beverage cooling
- Chillers (liquid cooling)

### **SPECIFICATIONS**

TECHNICAL		
Hot Side Temperature (°C)	25°C	50°C
Qmax (Watts)	122.3	134.4
Delta Tmax (°C)	67	75
Imax (Amps)	14.3	14.3
Vmax (Volts)	14.5	16.4
Module Resistance (Ohms)	0.94	1.06

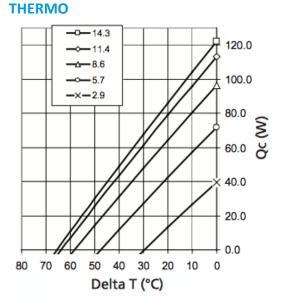
SUFFIX	THICKNESS (PRIOR TO TINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
L	0.180"±0.010"	0.0025"/0.0025"	Lapped	Lapped	4.5"
L1	0.180"±0.010"	0.001"/0.001"	Lapped	Lapped	4.5"
L2	0.180"±0.0005"	N/A	Lapped	Lapped	4.5"
ML	0.184"±0.010"	0.002"/0.002"	Metallized	Lapped	4.5"
LM	0.184"±0.010"	0.002"/0.002"	Lapped	Metallized	4.5"
MM	0.188"±0.010"	0.002"/0.002"	Metallized	Metallized	4.5"

### **SEALING OPTIONS**

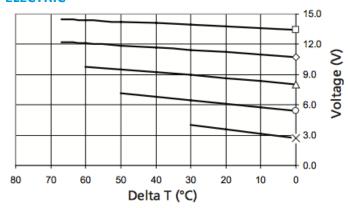
SUFFIX	SEALANT	COLOR	TEMP RANGE	DESCRIPTION
RT	RTV	White	-60 to 204 °C	Non-corrosive, silicone adhesive
EP	Ероху	Black	-55 to 150 °C	Low density syntactic foam epoxy encapsulant



## Performance Curves at Th = 25°C



#### **ELECTRIC**



### **NOTES**

- 1. Use distilled water as coolant for control temperatures above 5°C.
- 2. To prevent freezing, use coolant with 70% distilled water and 30% pure ethylene glycol mix for control temperatures at or below 5°C
- 3. For alternate coolants please contact Laird
- 4. Unit comes with a 115 VAC North American cord and a 230 VAC European cord

#### Laird-ETS-CP2-127-06-Data-Sheet-092816

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