Laird SYSTEMS

CP Series OT15,32,F0,0808 Thermoelectric Modules



The OptoTECTMSeries is a miniature thermoelectric module (TEM). This product series is primarily used in applications to stabilize the temperature of sensitive optical components in telecom and photonics industries.

This product line is available in multiple configurations and surface finishing options. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the OptoTECTMSeries is designed for lower current and lower heat-pumping applications. Custom designs are available to accommodate metallization, pretinning, ceramic patterns, and solder posts, however MOQ applies.

Features

- Miniature geometric sizes
- Precise temperature control
- Reliable solid state operation
- No sound or vibration
- DC operation
- RoHS compliant

Applications

- Laser diodes
- CCD cameras
- Infrared (IR) sensors
- Pump lasers
- Crystal oscillators
- Optical transceivers

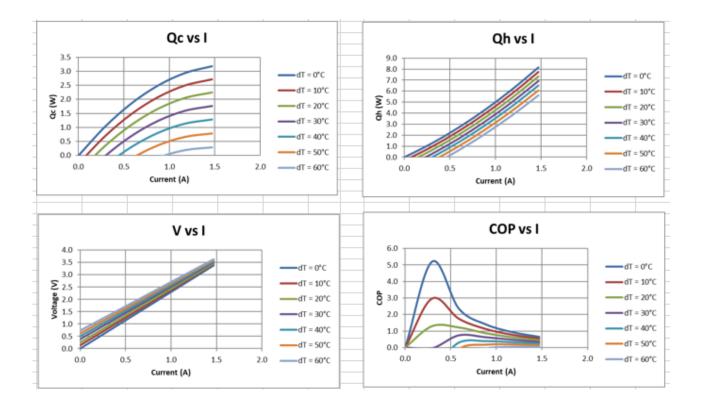
TECHNICAL SPECIFICATIONS		
Hot Side Temperature (°C)	25	50
Qmax (W)	3. 3	3.6
Delta Tmax (°C)	67	75
Imax (Amps)	1.5	1.5
Vmax (Volts)	3. 7	4.1
Module Resistance (Ohms)	2. 23	2. 52

SUFFIX	THICKNESS (PRIOR TO THINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
L 0.096"±0.002"		0.002"/0.002"	Lapped	Lapped	2.25"
L1	0.096"±0.001"	0.001"/0.001" Lapped	Lapped	Lapped	2.25"
L2	0.096"±0.0005"	0.0005"/0.0005"	Lapped	Lapped	2.25"
ML	0.103"±0.010"	0.005"/0.005"	Metallized	Lapped	2.25"
LM	0.103"±0.010"	0.005"/0.005"	Lapped	Metallized	2.25"
MM	0.110"±0.010"	0.005"/0.005"	Metallized	Metallized	2.25"

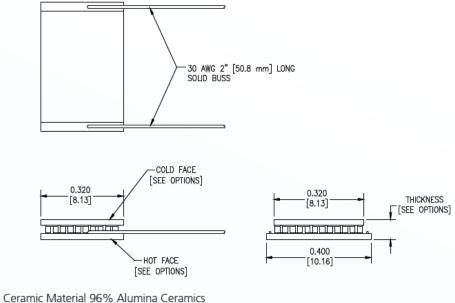
SEALING OPTIONS

SUFFIX	SEALANT	COLOR	TEMPERATURE 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

PERFORMANCE CURVES AT Th = 25° C



MECHANICAL DRAWING



Ceramic Material 96% Alumina Ceramic Solder Construction: 138°C BiSn

NOTES

- 1. Max operating temperature: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Please Consult Laird Thermal Systems for moisture and corrosion protection options

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 de of the end product processe.

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