

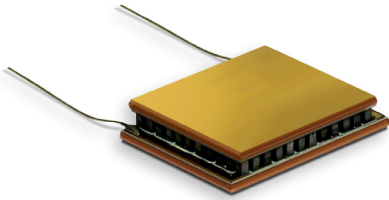
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Tlam OptoTEC[™] Series OT12,18,F2T,0606 Thermoelectric Module



The Tlam OptoTEC[™] Series is a miniature thermoelectric module (TEM) that uses a thermally conductive dielectric with copper exteriors as substrates. This product line has improved heat spreading, higher mechanical integrity and can provide cost savings over standard ceramic based TEMs with similar form factors in high volume. This product series has been created for applications to stabilize the temperature of sensitive optical components in telecom, photonics, medical and consumer markets.

This product line is available in multiple configurations and surface finishing options. The Tlam OptoTEC[™] Series is designed for lower current and lower heat-pumping applications and are easily customizable to accommodate alternate sizes, heat pumping capacities, pretinning, unique circuit patterns, or solder posts, however MOQ applies.

FEATURES

- High Heat Spreading
- Robust Mechanical Design
- Precise Temperature Control
- No Sound or Vibration
- Cost Savings in High Volume
- Flexible Customization

APPLICATIONS

- Laser Diodes
- Consumer Medical Lasers
- Optical Transceivers
- Pump Lasers
- Crystal Oscillators

PERFORMANCE SPECIFICATIONS

Hot side temperature (°C)	25	50
Qmax (watts)	1.5	1.6
Delta Tmax (°C)	67	77
I _{max} (amps)	1.2	1.2
V _{max} (volts)	2.1	2.3
Module resistance (ohms)	1.57	1.77

Passed Telcordia GR-468-CORE Issue 2 Reliability Testing

SUFFIX	THICKNESS (PRIOR TO TINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
Z2	0.124" +/- 0.005"	NA / NA	Pre-tinned	Pre-tinned	2.0"
GG	0.124" +/- 0.005"	NA / NA	Au Plated	Au Plated	2.0"

SEALING OPTION

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

Americas: +1 888.246.9050

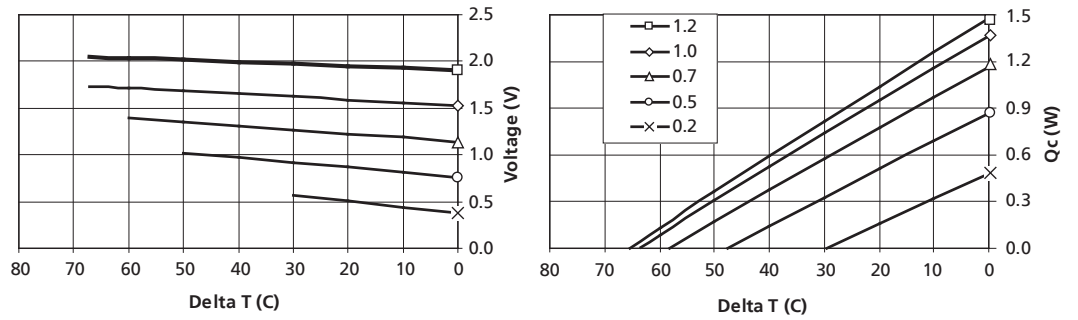
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Asia: +86.755.2714.1166

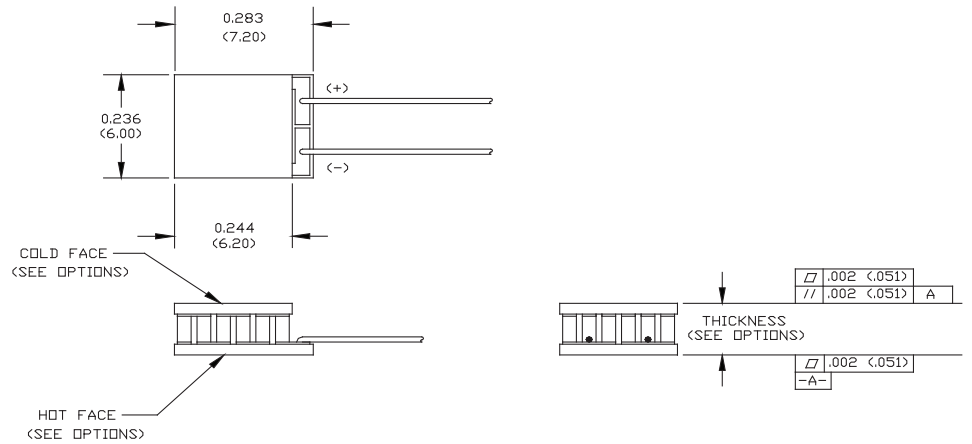
clv.customerpos@lairdtech.com

www.lairdtech.com

PERFORMANCE CURVES



MECHANICAL DRAWING



Solder Construction: 138°C, Bismuth Tin
Tlam Substrates

OPERATING TIPS

- Max Operating Temperature: 80°C
- Do not exceed I_{max} or V_{max} when operating module
- Reference assembly guidelines for recommended installation
- Solder tinning also available on Tlam substrates

THR-DS-OT12,18,F2T,0606,11,W2.25 1013

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