

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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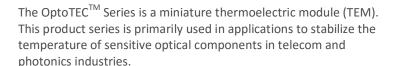






OptoTEC™ Series OT12-12-F0-0406

Thermoelectric Module



This product line is available in multiple config urations and surface finishing options. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the OptoTEC Series 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.



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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

SPECIFICATIONS

PERFORMANCE			
Hot Side Temperature (°C)	25	50	
Qmax (Watts)	1.0	1.1	
Delta Tmax (°C)	67	77	
Imax (Amps)	1.2	1.2	
Vmax (Volts)	1.4	1.6	
Module resistance (ohms)	1.04	1.18	

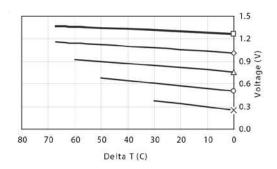
SUFFIX	THICKNESS PRIOR TO TINNING	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
11	0.106"± 0.002"	0.0002" / 0.002"	Lapped	Lapped	2.0"
TB	0.106"± 0.0005"	0.0005" / 0.0005"	Lapped	Lapped	2.0"
00	0.119"± 0.005"	NA / NA	Metallized	Metallized	2.0"
22	0.119"± 0.005"	NA / NA	Pre-tinned	Pre-tinned	2.0"
GG	0.119"± 0.005"	NA / NA	AuPlated	AuPlated	2.0"

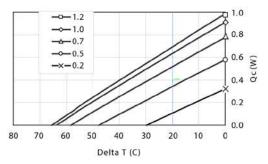
SEALING OPTIONS

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

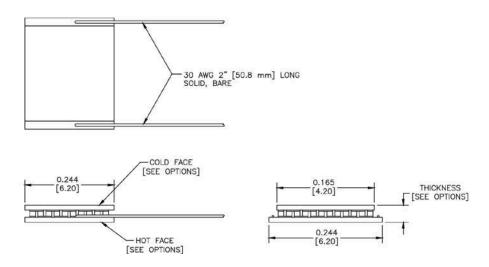


PERFORMANCE CURVES





MECHANICAL DRAWING



Ceramic Material: 96% Alumina Ceramics

Solder Construction: 138°C BiSn

OPERATING TIPS

• Max operating temperature: 80°C

• Do not exceed Imax or Vmax when operating module

• Reference assembly guidelines for recommended installation

Solder tinning also available on metallized ceramics

LAIRD-ETS-OT12-12-F0-0406-DATA-SHEET-101416

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