



The HiTemp ET Series of Thermoelectric Modules (TEMs) are designed to operate in high temperature environments.

This product line is available in multiple configurations and is ideal for applications that operate in temperatures above 80°C. Assembled with Bismuth Telluride semiconductor material, thermally conductive Aluminum Oxide ceramics and high temp solder construction, the ET Series is designed for higher current and larger heat-pumping applications.

FEATURES

- High-temperature differential
- Precise temperature control
- Reliable solid-state operation
- Environmentally-friendly
- DC operation
- RoHS-compliant

APPLICATIONS

- CCD cameras
- Electron Microscope
- Calibration equipment
- Photonics laser systems
- Gas analyzers
- Infrared (IR) sensors
- Guidance systems

TECHNICAL SPECIFICATIONS				
Hot Side Temperature (°C)	25			
Qmax (W)	39.9			
Qmax (W) Delta Tmax (°C)	87			
Imax (Amps)	6.8			
Vmax (Volts)	15.8			

SUFFIX	THICKNESS (PRIOR TO THINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
00	0.326"±0.008"	0.001"/0.004"	Metallized	Metallized	7.87″
11	0.319"±0.008"	0.001"/0.002"	Lapped	Lapped	7.87″
22	0.326"±0.008"	0.001"/0.004"	Pre-tinned	Pre-tinned	7.87″

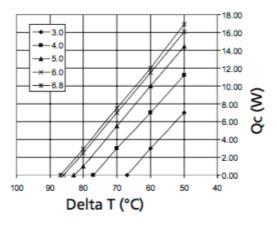
SEALING OPTIONS

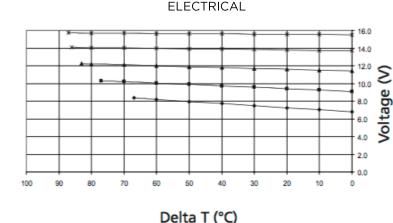
SUFFIX	SEALANT	COLOR	TEMPERATURE RANGE	DESCRIPTION	
RT	RTV	White	-60 to +204 °C	Non-corrosive, silicone adhesive	
EP	Ероху	Black	-55 to +150 °C	Low density syntactic foam epoxy encapsulant	



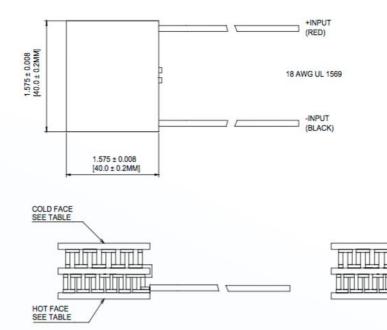
PERFORMANCE CURVES AT Th = 25° C







MECHANICAL DRAWING



NOTES:

- Maximum 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

Ceramic Material: 96% Alumina Ceramics Solder Construction: 138°C, Bismuth Tin (BiSn)

RoHS

Americas: +1.919.597.7300 Europe: +46.31.420530 Asia: +86.755.2714.1166 ets.sales@lairdtech.com www.lairdtech.com



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THICKNESS SEE TABLE

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