

ZT Series ZT5-16-F1-4040

Thermoelectric Modules



The ZT Series is a high performance thermoelectric module (TEM). The module I assembled with premium Bismuth Telluride semiconductor material that achieves a higher temperature differential than standard single stage TEMs.

This product line is available in multiple configurations and is ideal for applications that require reaching cold temperatures.

Assembled with top grade Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the ZT Series is designed for higher current and larger heat-pumping applications.

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FEATURES

- High temperature differential
- Precise temperature control
- Reliable solid state operation
- No sound or vibration
- DC operation
- RoHS compliant

APPLICATIONS

- Analytical instrumentation
- Clinical diagnostics
- Photonics laser systems
- Electronic enclosure cooling
- Food & beverage cooling
- Chillers (liquid cooling)

SPECIFICATIONS

TECHNICAL		
Hot Side Temperature (°C)	25°C	
Qmax (Watts)	62.3	
Delta Tmax (°C)	74	
Imax (Amps)	5.0	
Vmax (Volts)	20.0	
Module Resistance (Ohms)	3.33	

SUFFIX	THICKNESS (PRIOR TO TINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
TA	0.146"±0.001"	0.001"/0.001"	Lapped	Lapped	14.0"
ТВ	0.146"±0.0005"	0.0005"/0.0005"	Lapped	Lapped	14.0"

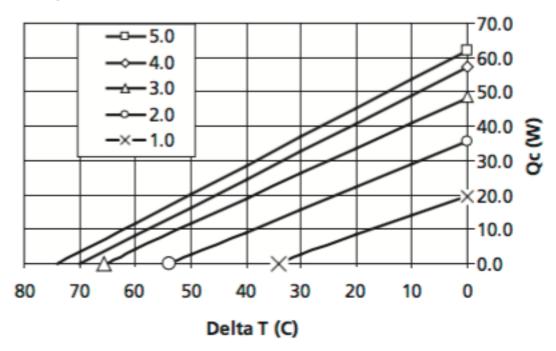
SEALING OPTIONS

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

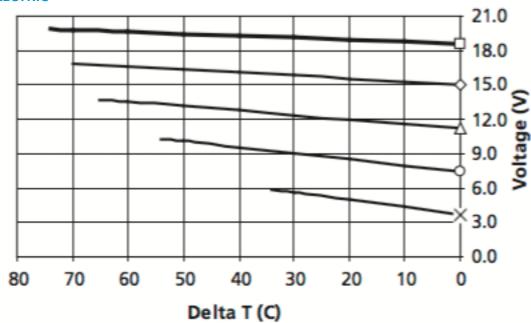


Performance Curves at Th =25°C

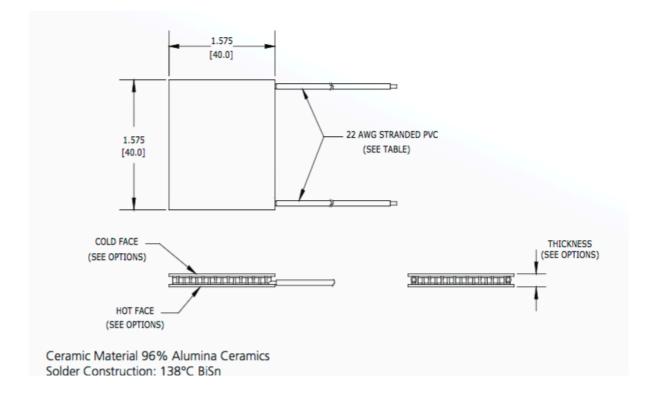
THERMO



ELECTRIC







NOTES

- 1. Max operating temperature: 80°C
- 2. Do not exceed Imax or Vmax when operating module
- 3. Reference assembly guidelines for recommended installation

Laird-ETS-ZT5-16-F1-4040-Data-Sheet-101416

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