

HiTemp ET Series ET6,12,F1,4040 Thermoelectric Modules



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 operation
- Reliable solid state
- No sound or vibration
- Environmentally-friendly
- RoHS-compliant

APPLICATIONS

- Automotive cooling
- Telecom cooling
- Outdoor environments
- Medical heating/cooling

TECHNICAL SPECIFICATIONS					
Hot Side Temperature (°C)	85	110			
Qmax (W)	62.5	64			
Delta Tmax (°C)	87	94			
Imax (Amps)	6	6			
Vmax (Volts)	18.6	20.3			
Module Resistance (Ohms)	2.88	3.19			

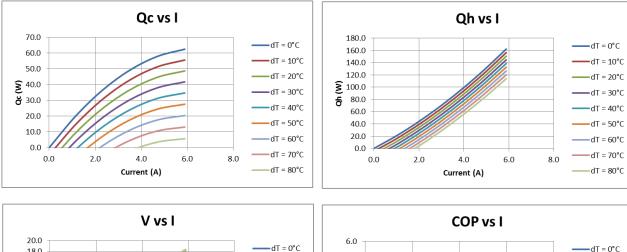
SUFFIX	THICKNESS (PRIOR TO THINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
ТА	0.150" ±0.010"	0.001"/0.001"	Lapped	Lapped	6″
ТВ	0.150" ±0.0005"	0.0005"/0.0005"	Lapped	Lapped	6″

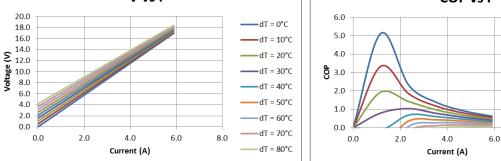
SEALING OPTIONS

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

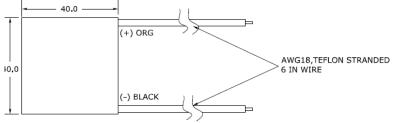


PERFORMANCE CURVES AT Th = 85° C





MECHANICAL DRAWING



COLD SIDE OPTION



HOT SIDE OPTION

Ceramic Material: Alumina(Al2O3) Solder Construction: 232°C SbSn

THICKNESS

(SEE OPTIONS)

NOTES:

8.0

Maximum Operating Temperature: 150°C

-dT = 10°C

-dT = 20°C

-dT = 30°C

-dT = 40°C

dT = 50°C

-dT = 60°C

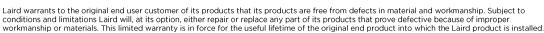
______dT = 70°C

_____dT = 80°C

- Do not exceed Imax or Vmax when operating module
- Reference assembly guidelines for recommended installation

RoHS

Americas: +1.919.597.7300 Europe: +46.31.420530 Asia: +86.755.2714.1166 Useful lifetime of the original end product may vary but is not to exceed five (5) years from the original date of the end product purchase. ets.sales@lairdtech.com www.lairdtech.com



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