ThermaTEC™Series HT8-12-F2-4040

Thermoelectric Modules

Note: *This product has reached end of production and is available on a limited basis only. This product series has been replaced with the improved HiTemp ET Series product offering. Consider using ET8-12-F2-4040 HiTemp ET Series module as a replacement.*

The ThermaTEC™ Series of thermoelectric modules (TEMs) are designed to operate under cycling conditions or high temperature applications. This product line is available in multiple configurations and is ideal for applications that require both heating and cooling mode (reverse polarity) or power generation. Assembled with proprietary solder construction, Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the ThermaTEC™ Series is designed for higher current and larger heat-pumping applications.

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

FEATURES

- Thermal cycling durability
- Power cycling reliability
- Precise temperature control
- Strong lead attachment
- RoHS compliant
- Continuous operation at high temperatures

APPLICATIONS

- Analytical instrumentation
- PCR cyclers
- Thermal test sockets
- Electronic enclosure cooling
- Chillers (liquid cooling)
- Power generation

SPECIFICATIONS

TECHNICAL		
Hot Side Temperature (°C)	25°C	50°C
Qmax (Watts)	72.9	80.0
Delta Tmax (°C)	63	75
Imax (Amps)	8.5	8.5
Vmax (Volts)	14.5	16.4
Module Resistance (Ohms)	1.58	1.78

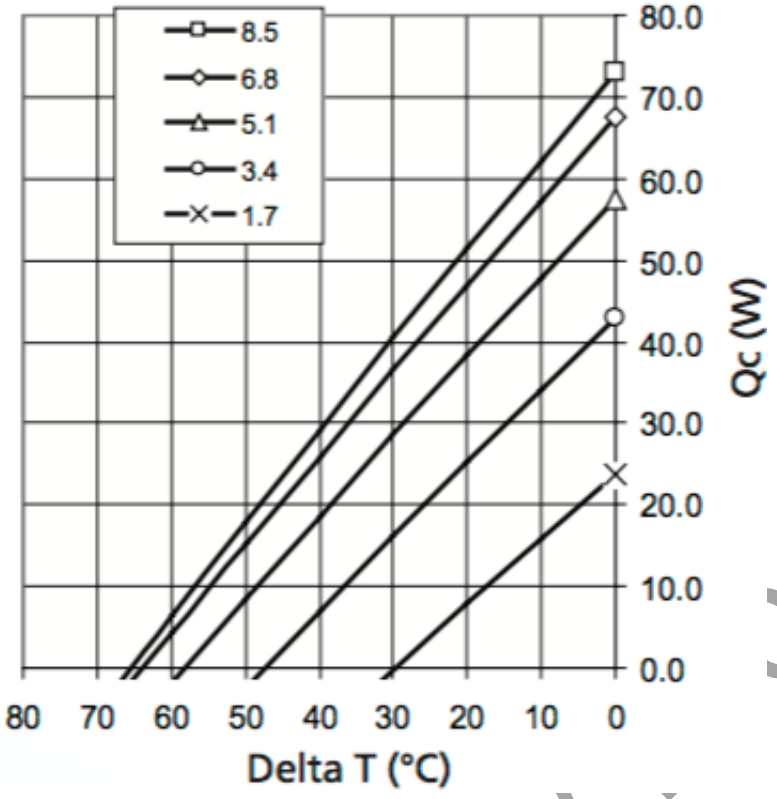
SUFFIX	THICKNESS (PRIOR TO TINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
11	0.131”±0.005”	0.002” /0.0035”	Lapped	Lapped	6.0”
TA	0.131”±0.001”	0.001”/0.001”	Lapped	Lapped	6.0”
TB	0.131”±0.0005”	0.0005”/0.0005”	Lapped	Lapped	6.0”

SEALING OPTIONS

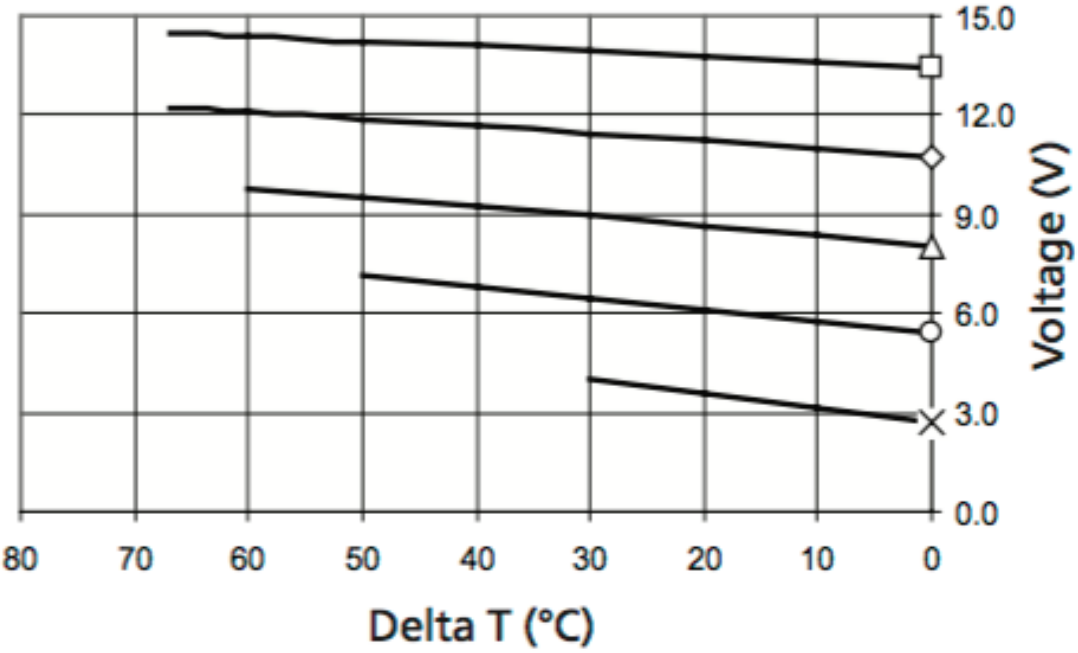
SUFFIX	SEALANT	COLOR	TEMP RANGE	DESCRIPTION
RT	RTV	White	-60 to 204 °C	Non-corrosive, silicone adhesive
EP	Epoxy	Black	-55 to 150 °C	Low density syntactic foam epoxy encapsulant

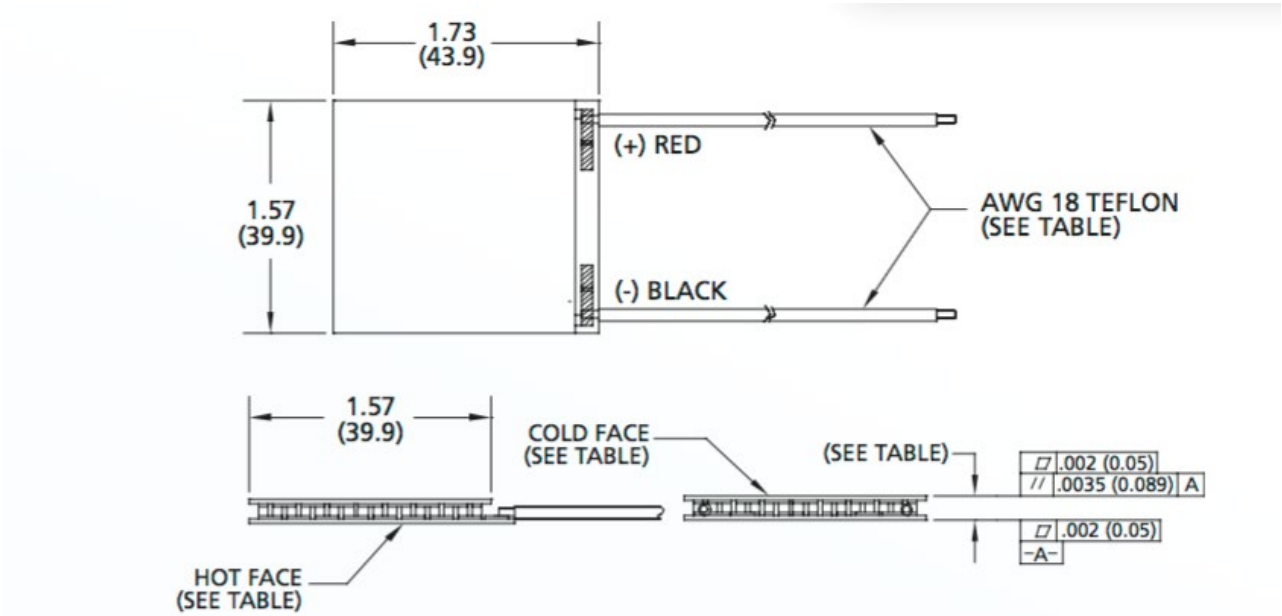
Performance Curves at Th =25°C

THERMO



ELECTRIC





Ceramic Material: Alumina (Al_2O_3)
Solder Construction: 271°C, Proprietary

NOTES

1. Max operating temperature: 175°C
2. Do not exceed Imax or Vmax when operating module
3. Reference assembly guidelines for recommended installation

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Thermoelectric Peltier Modules ***category:***

Click to view products by Laird Connectivity ***manufacturer:***

Other Similar products are found below :

C3100-1980 C3200-0504 C3200-0505 C3200-371 C3400-0262 430084-505 C3400-215 430866-501 CP39136H CP35447 CP85204035 CP60131H CPM-2F CP853345H CP85138 CP35347 430077-523 CP081030-M CP12437 CP30138H CP30338 CP303385H CP35247 CP39236H CP393365H CP40236 CP40247 CP40347 CP50441 CP60231H CP60233 CP60239H CP60240 CP60301540 CP60333 CP603395H CP60340 CP604395H CP60440 CP70437 CP854345H CP854705-2 CP10205033 CP10304033 CP1054033H CP115035335 CP144745325 CP200543636 CP2020405H CP203475H