

ThermaTEC[™] Series HT4-7-F2-3030

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 ET4-7-F2-3030 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.

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

PERFORMANCE SPECIFICAT	IONS		
Hot Side Temperature (°C)	25°C	50°C	
Qmax (Watts)	18.4	20.2	
Delta Tmax (°C)	64	75	
Imax (Amps)	3.8	3.8	
Vmax (Volts)	8.1	9.2	
Module Resistance (Ohms)	1.95	2.20	

SUFFIX	THICKNESS	FLATNESS &	НОТ	COLD	LEAD
	(PRIOR TO TINNING)	PARALLELISM	FACE	FACE	LENGTH
11	0.161"± 0.005"	0.002" / 0.0035"	Lapped	Lapped	6.0″
TA	0.161"± 0.001"	0.001" / 0.001"	Lapped	Lapped	6.0″
TB	0.161"± 0.0005"	0.0005" / 0.0005"	Lapped	Lapped	6.0″

SEALING OPTION

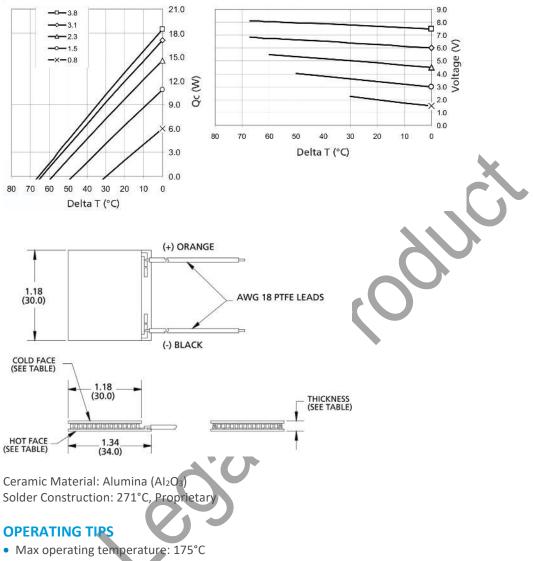
SUFFIX	SEALANT	COLOR	TEMP RANGE	DESCRIPTION
R	RTV	White	-60 to 204°C	Non-corrosive, silicone adhesive sealant
E	Ероху	Black	-55 to 150°C	Low density syntactic foam epoxy encapsulant



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Performance Curves at Th = 25°C THERMO ELECTRIC



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

LAIRD-ETS-HT4-7-F2-3030-DATA-SHEET-101016

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