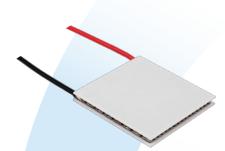


for a **Connected** World

ZT Series ZT6,7,F1,3030

Thermoelectric Module



The ZT Series is a high performance thermoelectric module (TEM). The module is 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 to reach 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.

FEATURES ✓ RoHS

- 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 and beverage cooling
- Chillers (liquid cooling)

PERFORMANCE SPECIFICATIONS				
Hot side temperature (°C)	25			
Qmax (watts)	31.0			
Delta Tmax (°C)	74			
Imax (amps)	6.0			
Vmax (volts)	8.6			
Module resistance (ohms)	1.23			

SUFFIX	THICKNESS	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
TA	0.154" +/- 0.001"	0.001" / 0.001"	Lapped	Lapped	8.0"
ТВ	0.154" +/- 0.0005"	0.0005" / 0.0005"	Lapped	Lapped	8.0"

SEALING OPTION

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

global solutions: local support ™

Americas: +1 888.246.9050 Europe: +46.31.704.67.57 Asia: +86.755.2714.1166

clv.customerpos@lairdtech.com www.lairdtech.com

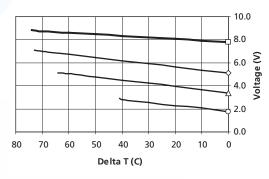


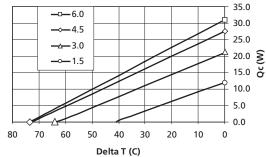
ZT Series ZT6,7,F1,3030

Thermoelectric Module

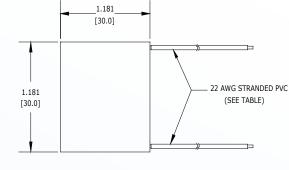
Innovative **Technology** for a **Connected** World

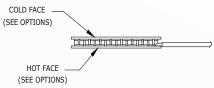
PERFORMANCE CURVES

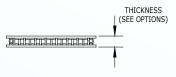




MECHANICAL DRAWING







Ceramic Material 96% Alumina Ceramics Solder Construction: 138°C BiSn

OPERATING TIPS

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

THR-DS-ZT6,7,F1,3030 0909

Any information furnished by Laird Technologies, inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies (Frems and Conditions of sale in effect from time to time, a copy of which will be Laird Technologies, Inc. and 1009 Laird Technologies, Inc. and Inc. and Technologies, Inc. and Technologies, Inc. and Technologies in the Company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.