

Multistage Series MS2,192,14,20,15,25

Thermoelectric Modules

The MS Series of thermoelectric modules (TEMs) are designed to reach cool down temperatures that are not achievable with single stage TEMs.

This product line is available in numerous heat pumping capacities, geometric shapes and temperature differentials. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide ceramics, the MS Series is designed for higher current and lower heat-pumping applications.

FEATURES

- High temperature differential
- Precise temperature control
- Reliable solid state operation
- Environmentally friendly
- DC operation
- RoHS compliant

APPLICATIONS

- CCD cameras
- Electron microscope
- Calibration equipment
- Photonics laser systems
- Gas analyzers
- Infrared (IR) Sensors
- Guidance Systems

PERFORMANCE SPECIFICATIONS

Hot Side Temperature (°C)	25
Qmax (Watts)	27.0
Delta Tmax (°C)	88
Imax (Amps)	4.5
Vmax (Volts)	16.1

SUFFIX	THICKNESS (PRIOR TO TINNING)	FLATNESS & PARALLELISM	HOT FACE	COLD FACE	LEAD LENGTH
00	0.327" ± 0.008"	0.001" / 0.004"	Metallized	Metallized	11.8"
11	0.319" ± 0.008"	0.001" / 0.002"	Lapped	Lapped	11.8"
22	0.327" ± 0.008"	0.001" / 0.004"	Pre-tinned	Pre-tinned	11.8"

SEALING OPTION

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

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Americas: +1 888.246.9050

Europe: +46.31.420530

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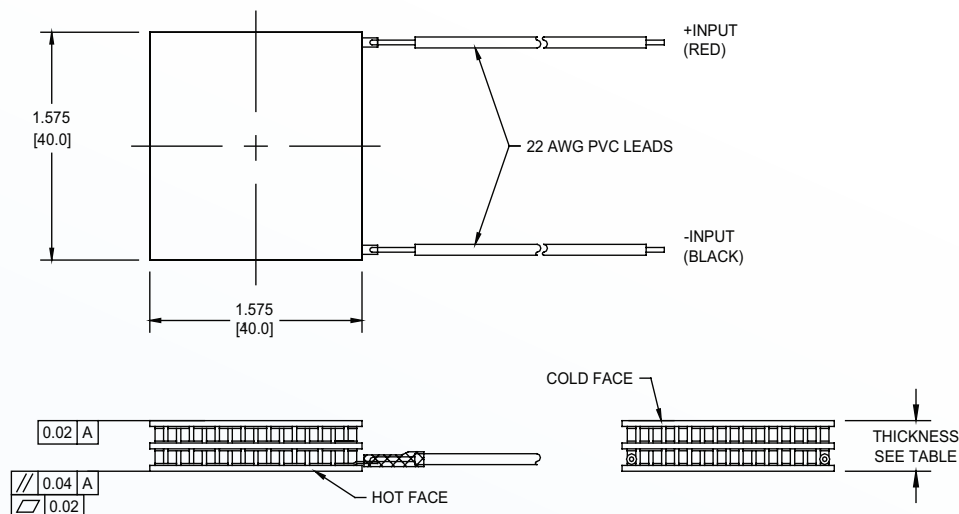
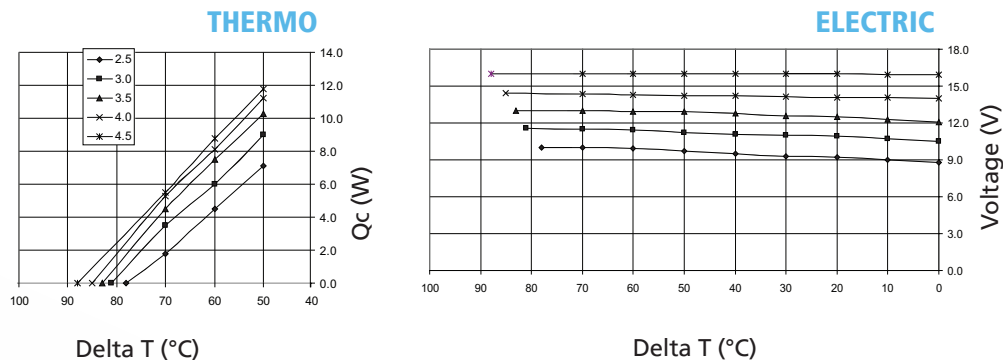
clv.customerpos@lairdtech.com

www.lairdtech.com

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Thermoelectric Modules

Performance Curves at $T_h = 25^\circ\text{C}$



Ceramic Material: 96% Alumina Ceramics
Solder Construction: 138°C, Bismuth Tin (BiSn)

OPERATING TIPS

- Max Operating Temperature: 80°C
- Do not exceed I_{max} or V_{max} when operating module
- Reference assembly guidelines for recommended installation
- Solder tinning also available on metallized ceramics

THR-DS-MS2,192,14,20,15,25 0609

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Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com