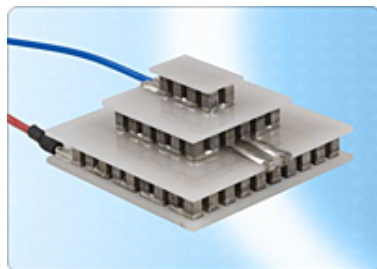


Item # MS2,024,06,06,11,11,11,W2, Multistage (Cascade) Series Thermoelectric Coolers



Multistage (Cascade) Series Thermoelectric Coolers

Stock Locator

The Multistage (MS) Series of Thermoelectric Modules (TEMs) offers the highest temperature differential (T), up to 131°C. This product line is available in numerous temperature differentials, heat pumping capacities and geometric shapes. The MS Series is designed for higher current and lower heat-pumping applications. It is ideal for applications operating in room temperature environment. Custom designs are available upon request, however MOQ applies.

Applications

- CCD Cameras
- Electron Microscopes
- Calibration Equipment
- Photonics Laser Systems
- Gas Analyzers
- Infrared (IR) Sensors
- Guidance Systems

Features

- High Temperature Differential
- Compact Geometric Sizes
- Reliable Solid State Operation
- Precise Temperature Control
- Environmentally Friendly
- RoHS Compliant

Please specify the surface finish by adding one of the following codes to the end of the catalog number:

- **00** Metallized Hot and/or Cold face
- **11** Non-Metallized Hot and/or Cold face
- **22** Pre-tinning Hot and/or Cold face with 118°C InSn Solder

Definitions:-

I_{max}: Input current resulting in greatest T (T_{max}) [Amps]

Q_{max}: Maximum amount of heat that can be absorbed at cold face (occurs at I = I_{max}, T = 0°C) [Watts]

TH: Temperature of the TEC hot face during operation [°C]

T_{max}: Maximum temperature difference a TEC can achieve (occurs at I = I_{max}, Q_c = 0) [°C]

V_{max}: Voltage at T (T_{max}) [Volts]

SPECIFICATIONS

ΔT_{max} ($T_H = 25^\circ\text{C}$)	92 °C
Q_{max} ($T_H = 25^\circ\text{C}$)	0.81 watts
I_{max} ($T_H = 25^\circ\text{C}$)	1.1 A
V_{max} ($T_H = 25^\circ\text{C}$)	2.2 V
Dimension A	4.1 mm
Dimension B	4.1 mm
Dimension C	6.1 mm
Dimension D	6.1 mm
Dimension E	4.6 mm