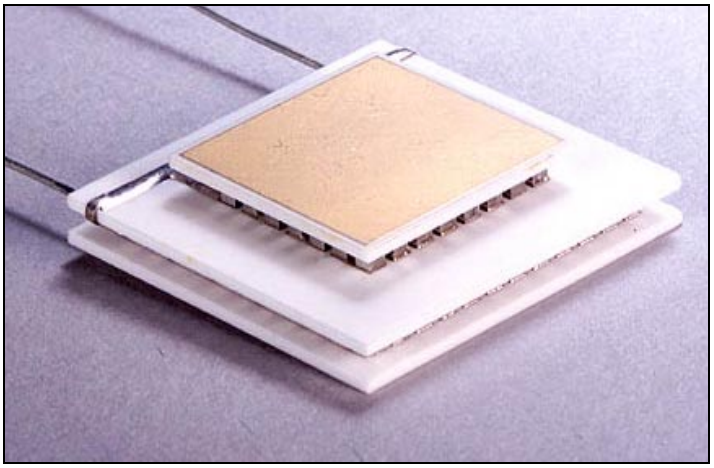
marlow industries inc.®

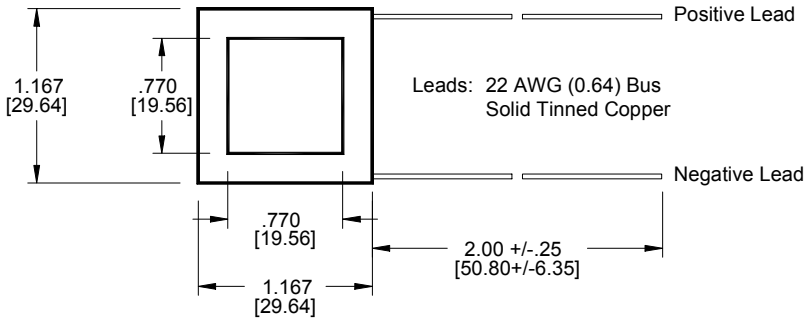
Thermoelectric Cooler MI2063T

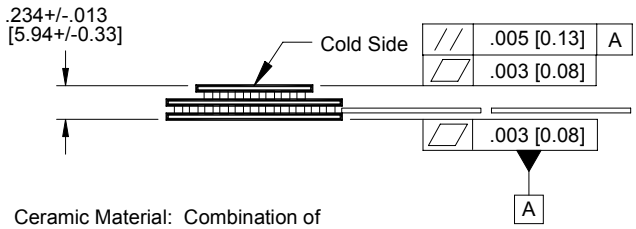
Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	80	91
Qmax (watts):	13.4	14.9
Imax (amps):	4.6	4.6
Vmax (vdc):	8.2	9.2
AC Resistance (ohms):	1.65	---



Mechanical Characteristics





Ceramic Material: Combination of Alumina and Beryllia (AB)

Millimeters are in [ ]

Ordering Options

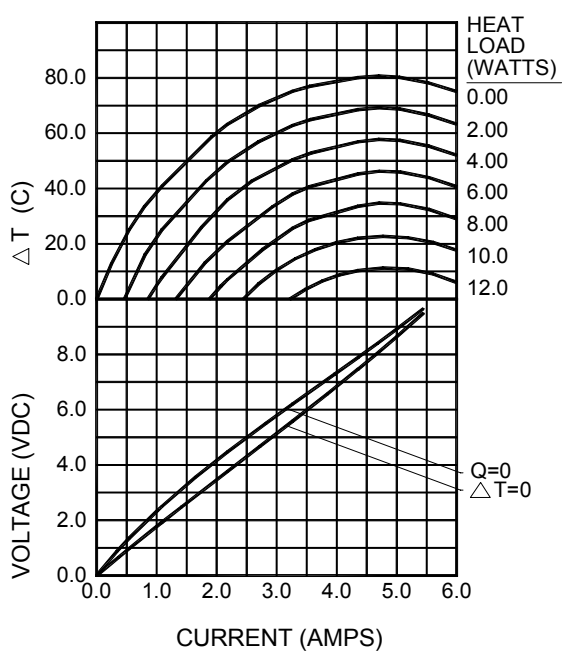
MI2063T-01AB	both surfaces are metallized
MI2063T-02AB	hot side exterior is metallized
MI2063T-03AB	no metallization

- For example, an MI2063T with only the hot side metallized is specified as an MI2063T-02AB
- Pretinned metallized ceramic surface(s) with 96°C or 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

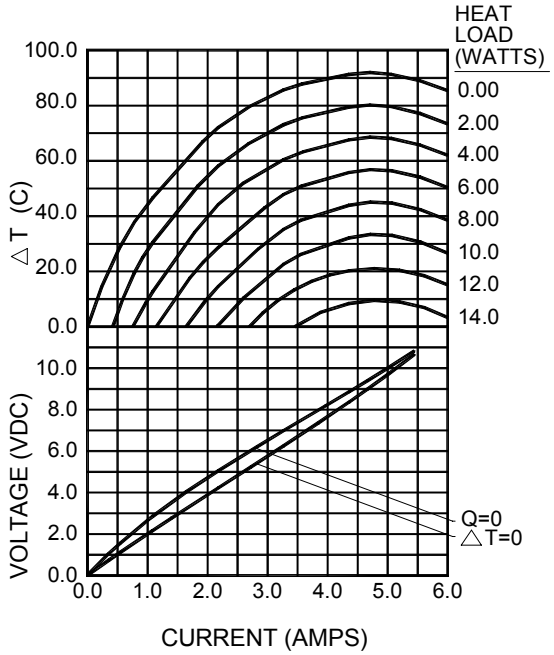
Performance Curves

Environment: One atmosphere dry nitrogen

Hot Side Temperature: 27°C



Hot Side Temperature: 50°C



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, consult one of our Applications Engineers.

Installation

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEC Installation Guide.

Operation Cautions

For maximum reliability, storage and operation below 85°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

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