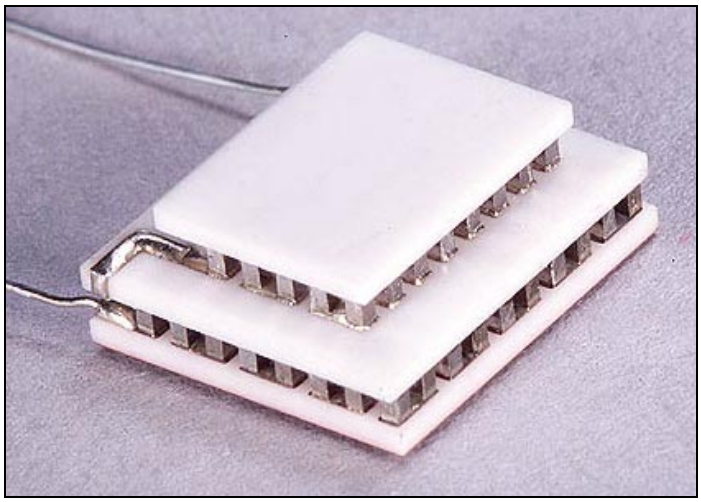
marlow industries inc.®

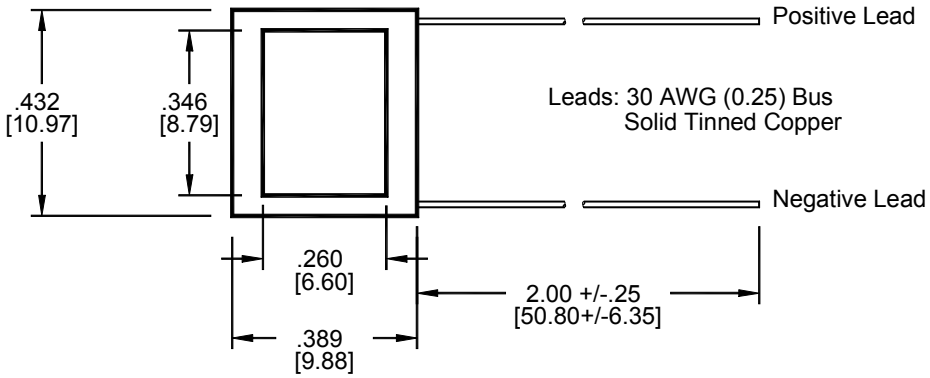
Thermoelectric Cooler MI2012T

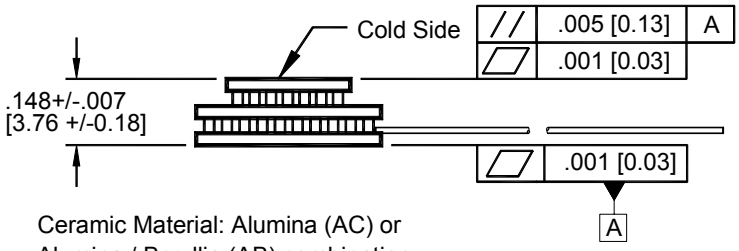
Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	77	88
Qmax (watts):	2.4	2.5
Imax (amps):	1.2	1.2
Vmax (vdc):	5.4	6.1
AC Resistance (ohms):	4.18	---



Mechanical Characteristics





Ceramic Material: Alumina (AC) or
Alumina / Beryllia (AB) combination

Ordering Options

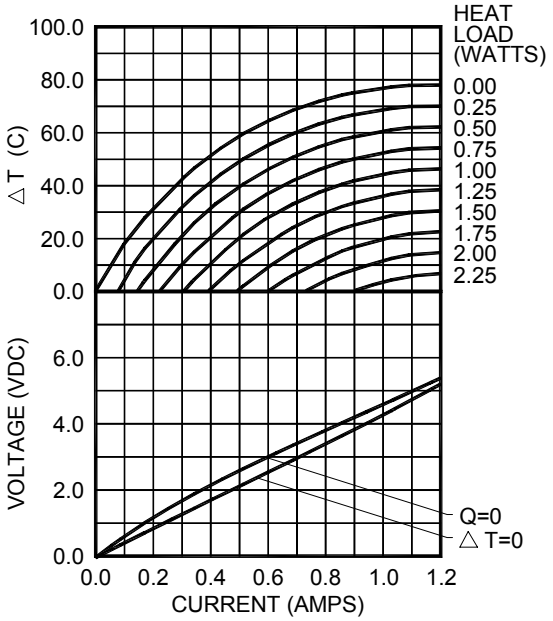
MI2012T-01	both surfaces are metallized
MI2012T-02	hot side exterior is metallized
MI2012T-03	no metallization

- For example, and MI2012T with only the hot side metallized is specified as an MI2012T-02AC
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

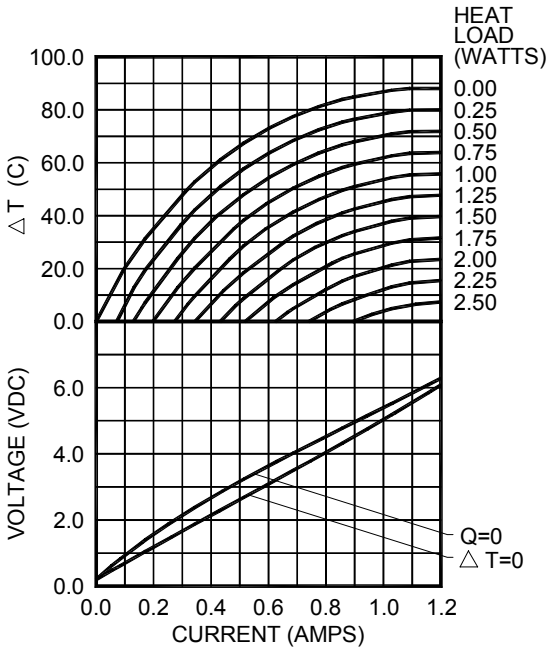
Performance Curves

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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