

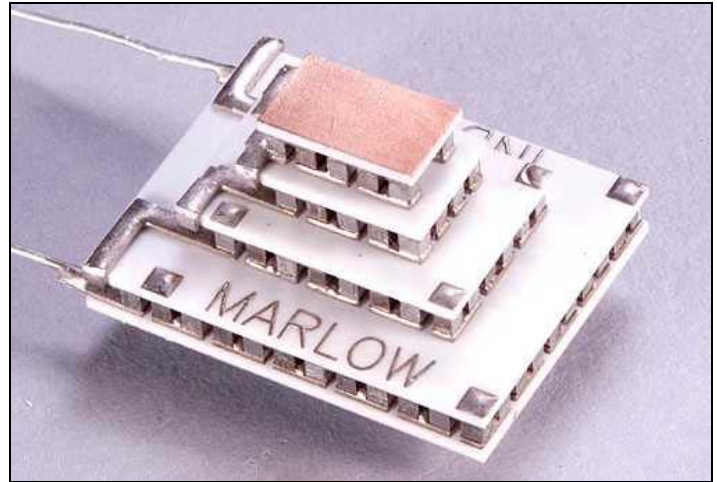


**Thermoelectric Cooler**

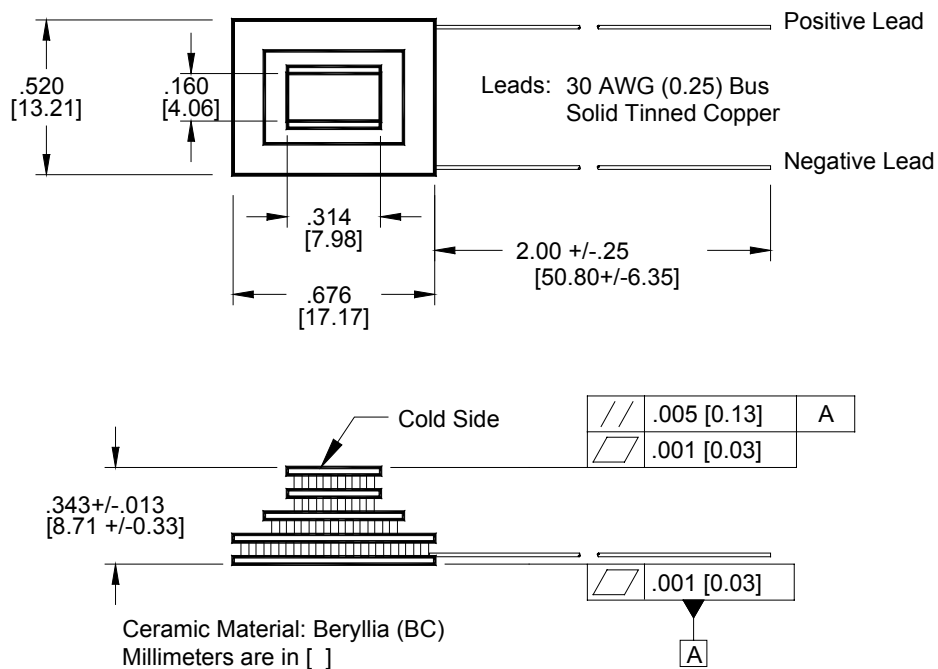
**MI4012T**

**Performance Values**

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (Vacuum):	114	129
Qmax (watts):	0.76	0.86
I <sub>max</sub> (amps):	1.0	1.0
V <sub>max</sub> (vdc):	6.7	7.4
AC Resistance (ohms):	6.22	---



**Mechanical Characteristics**



**Ordering Options**

MI4012T-01	both surfaces are metallized – cooler is mounted and shipped on test base
MI4012T-02	hot side exterior is metallized – cooler is mounted and shipped on test base
MI4012T-03	no exterior metallization

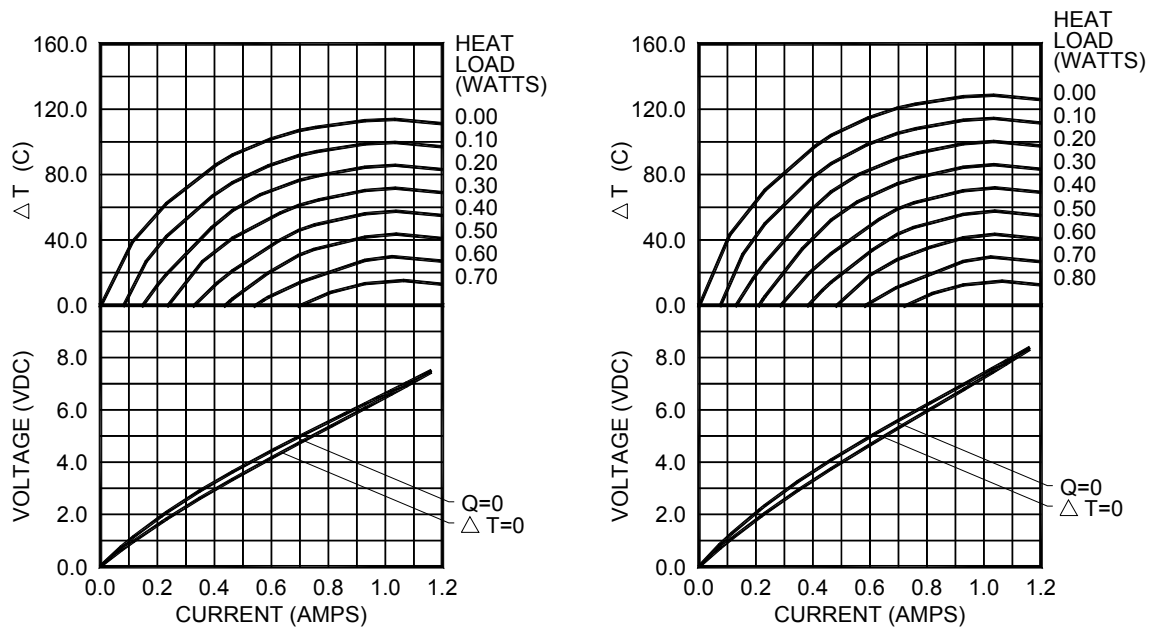
- For example, and MI4012T with only the hot side metallized is specified as an MI4012T-02BC
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

## Performance Curves

Environment: Vacuum

Hot Side Temperature: 27°C

Hot Side Temperature: 50°C



For performance information 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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