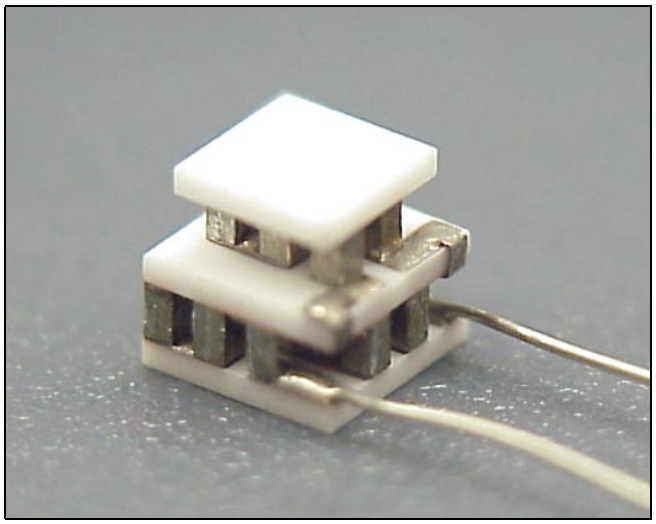
marlow industries inc.®

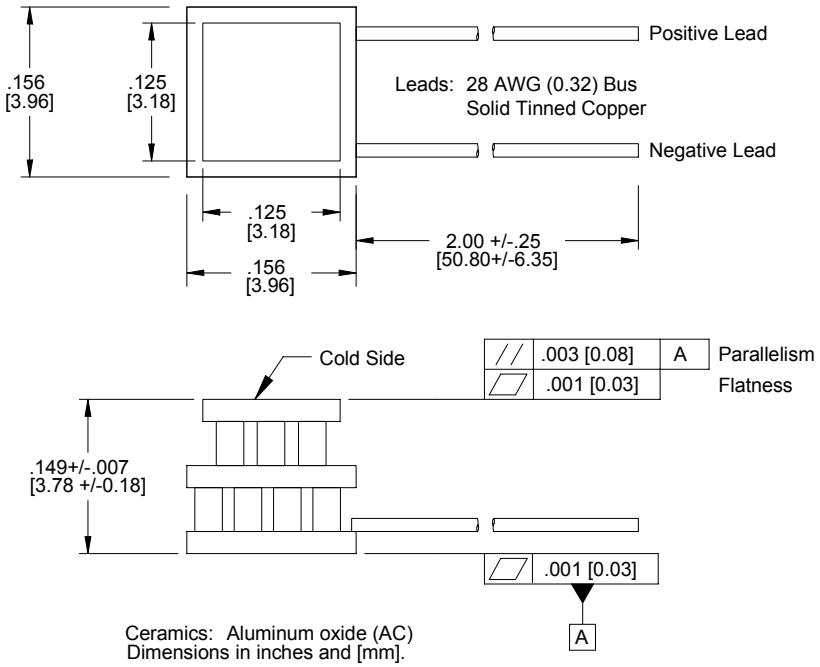
Thermoelectric Cooler MI2022T

Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	78	89
Qmax (watts):	0.39	0.44
Imax (amps):	1.4	1.4
Vmax (vdc):	0.8	1.0
AC Resistance (ohms):	0.56	---



Mechanical Characteristics



Ordering Options

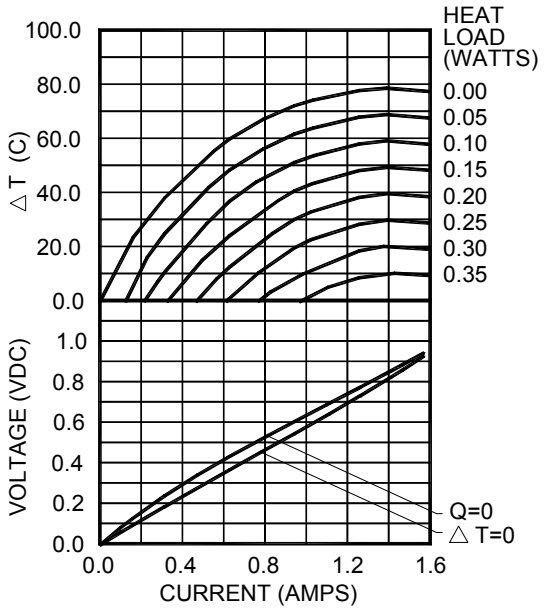
MI2022T-01	both surfaces are metallized
MI2022T-02	hot side exterior is metallized
MI2022T-03	no metallization

- For example, and MI2022T with only the hot side metallized is specified as an MI2022T-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.

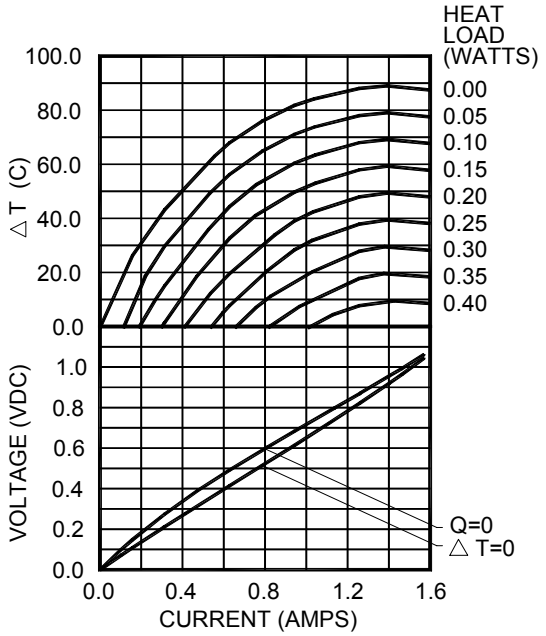
Performance Curves

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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