

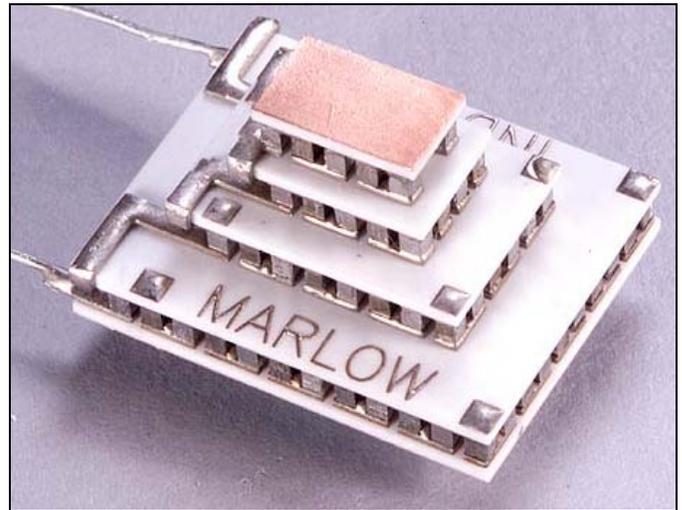


Thermoelectric Cooler

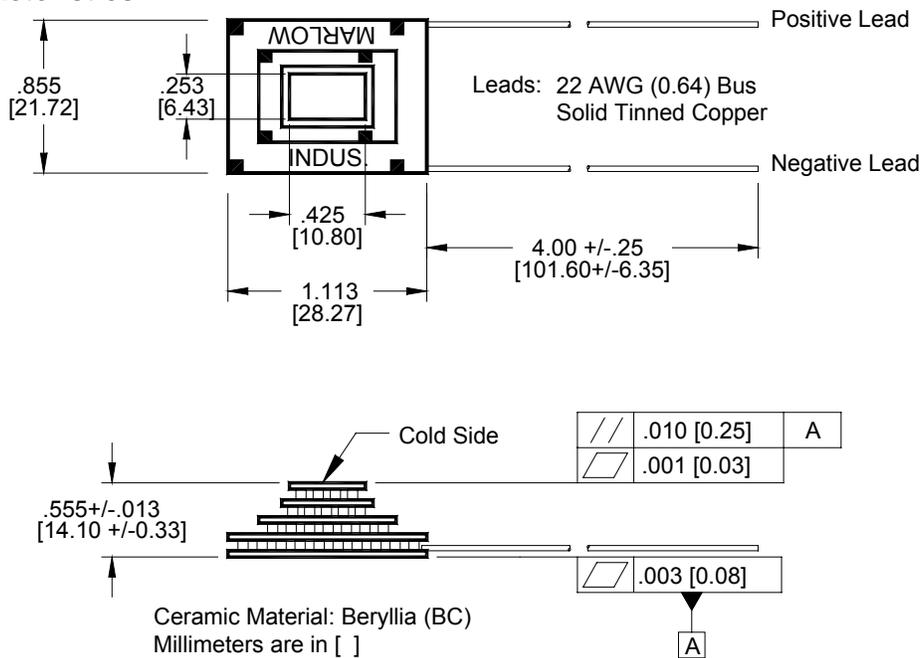
MI4040

Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (Vacuum):	120	136
Qmax (watts):	2.7	3.0
I _{max} (amps):	4.0	4.0
V _{max} (vdc):	6.8	7.7
AC Resistance (ohms):	1.62	---



Mechanical Characteristics



Ordering Options

MI4040-01	both surfaces are metallized – cooler is mounted and shipped on test base
MI4040-02	hot side exterior is metallized – cooler is mounted and shipped on test base
MI4040-03	no exterior metallization

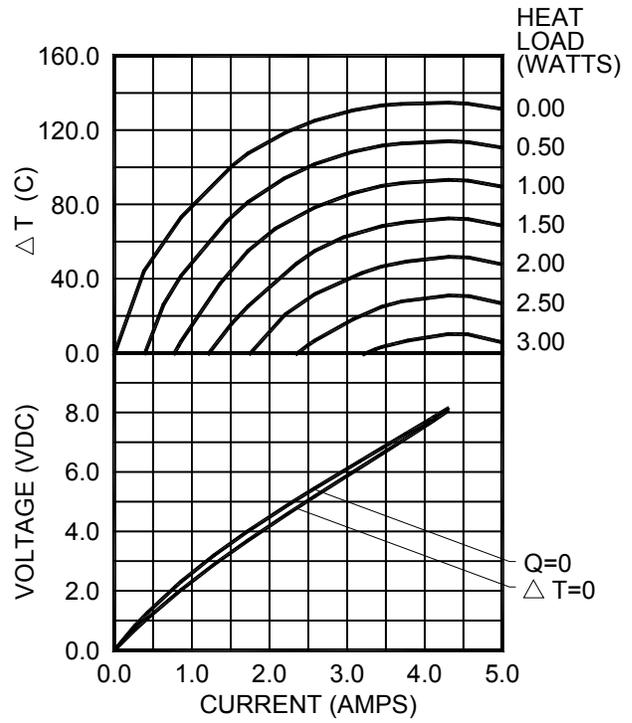
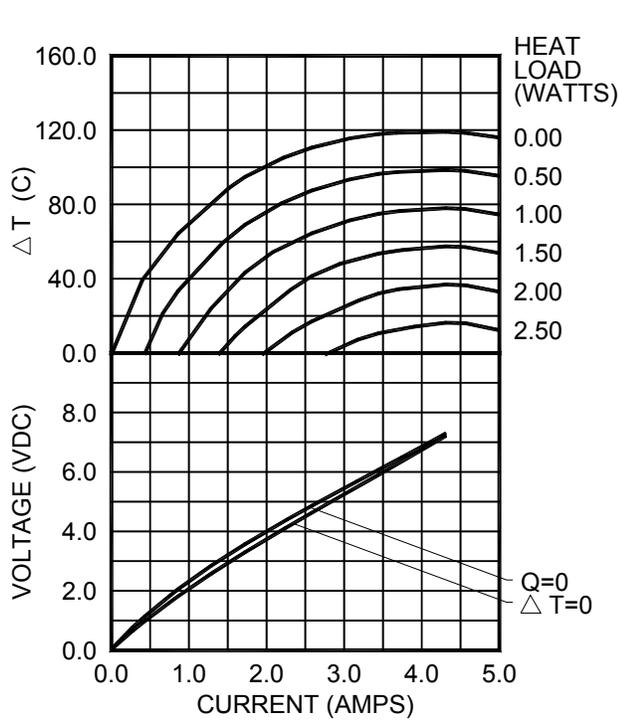
- For example, and MI4040 with only the hot side metallized is specified as an MI4040-02BC
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

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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