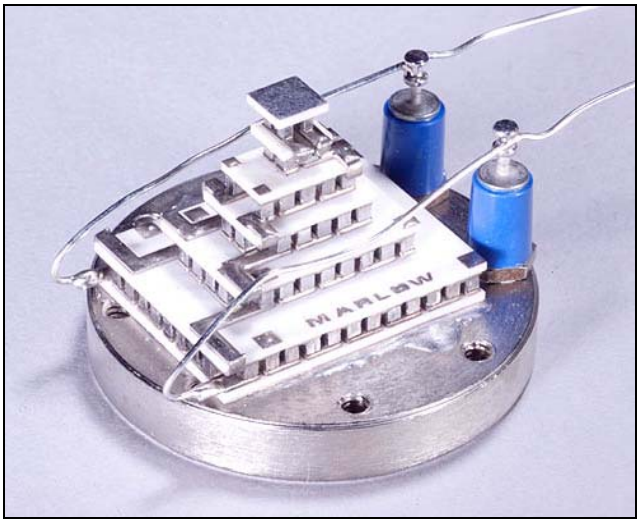
marlow industries inc.®

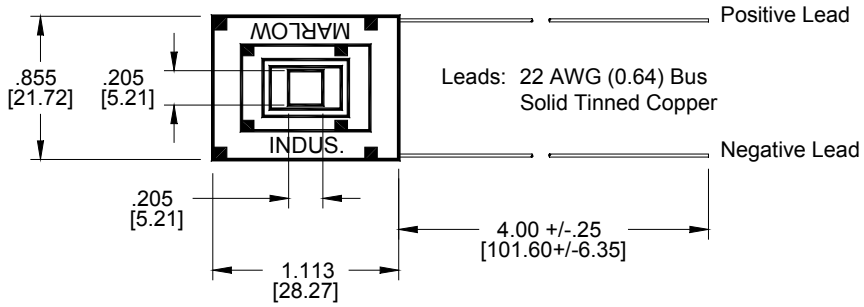
## Thermoelectric Cooler MI6030

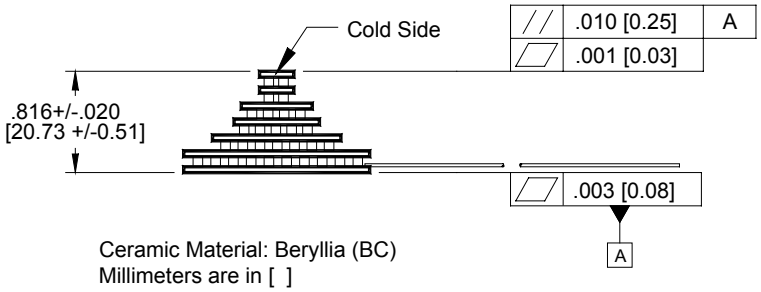
### Performance Values

| Hot Side Temperature (°C) | 27°C | 50°C |
|---|---|---|
| Δ Tmax (Vacuum): | 133 | 150 |
| Qmax (watts): | 0.58 | 0.65 |
| Imax (amps): | 3.6 | 3.7 |
| Vmax (vdc): | 6.3 | 7.2 |
| AC Resistance (ohms): | 1.65 | --- |




### Mechanical Characteristics



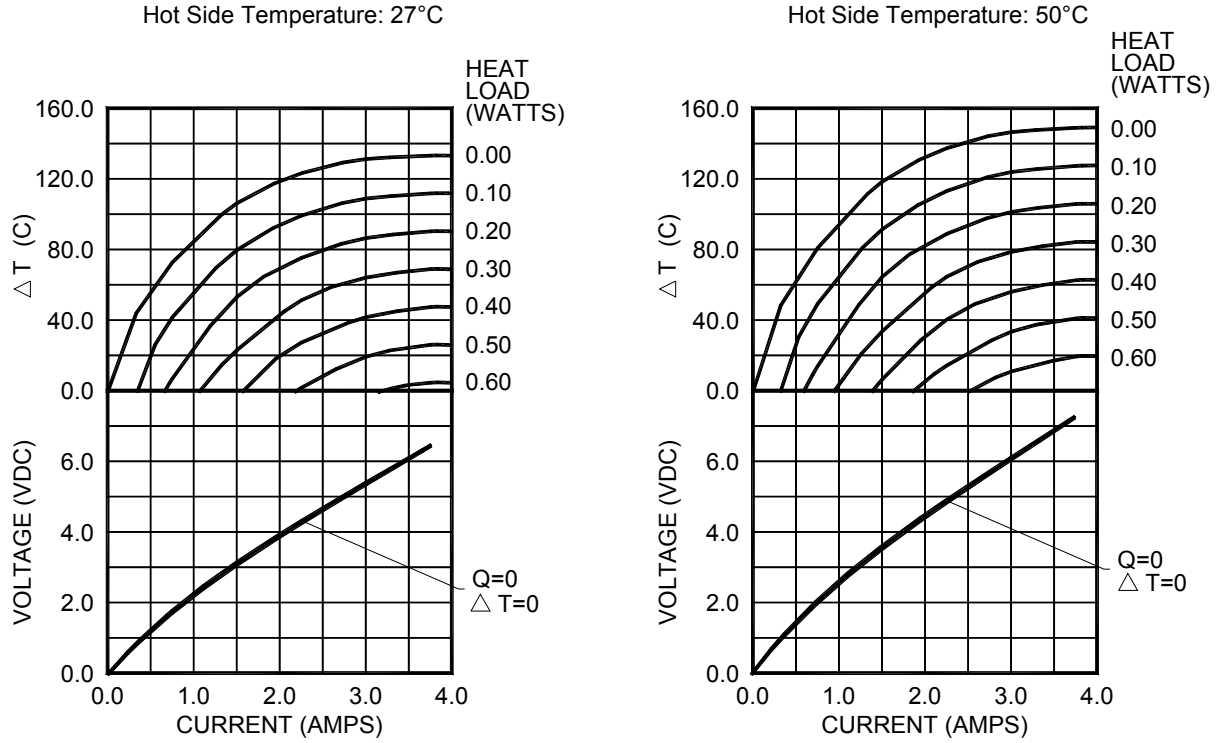

### Ordering Options

| | |
|---|---|
| MI6030-01 | both surfaces are metallized – cooler is mounted and shipped on test base |
| MI6030-02 | hot side exterior is metallized – cooler is mounted and shipped on test base |
| MI6030-03 | no exterior metallization |

- For example, and MI6030 with only the hot side metallized is specified as an MI6030-02BC
- 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**




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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