

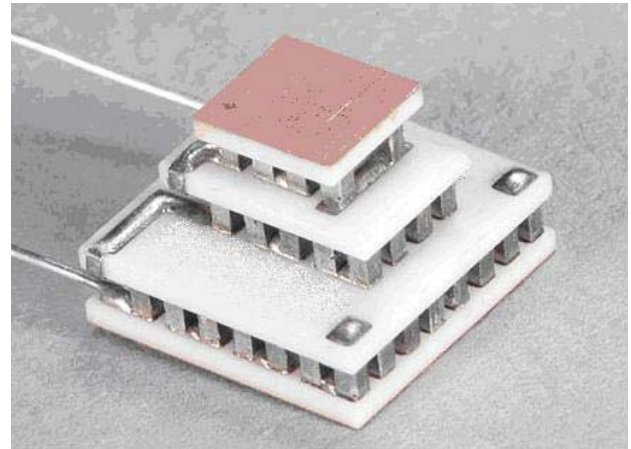


Thermoelectric Cooler

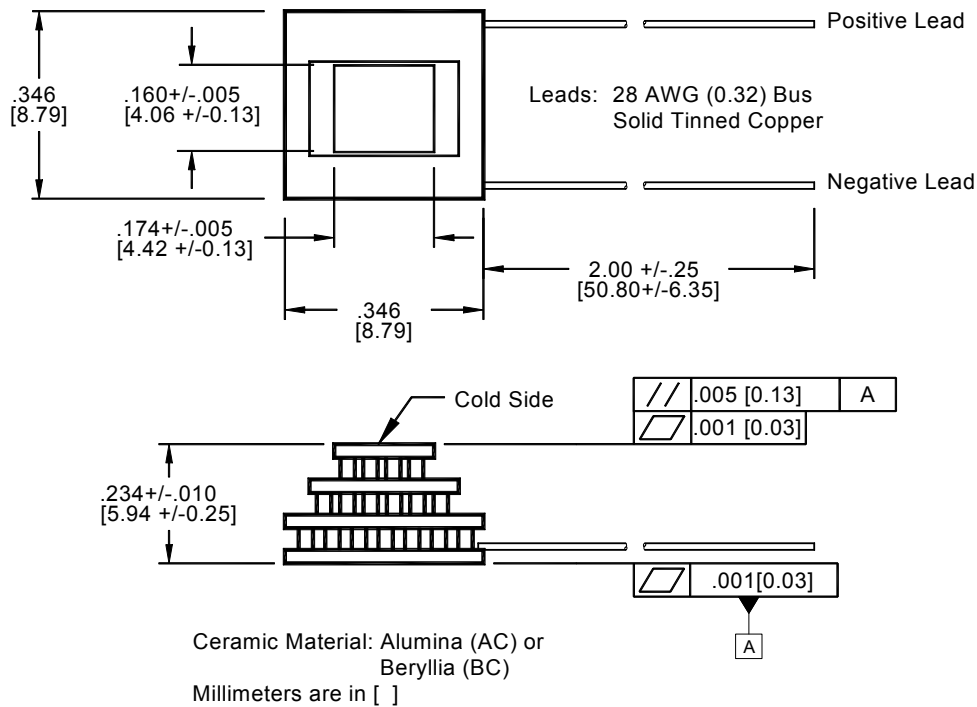
MI3026T

Performance Values

| | | |
|----------------------------------|------|------|
| Hot Side Temperature (°C) | 27°C | 50°C |
| Δ Tmax (°C-dry N ₂): | 93 | 106 |
| Qmax (watts): | 0.62 | 0.71 |
| I _{max} (amps): | 1.3 | 1.3 |
| V _{max} (vdc): | 3.4 | 3.9 |
| AC Resistance (ohms): | 2.51 | --- |



Mechanical Characteristics



Ordering Options

| | |
|------------|---|
| MI3026T-01 | both surfaces are metallized and gold plated |
| MI3026T-02 | hot side exterior is metallized and gold plated |
| MI3026T-03 | no metallization |

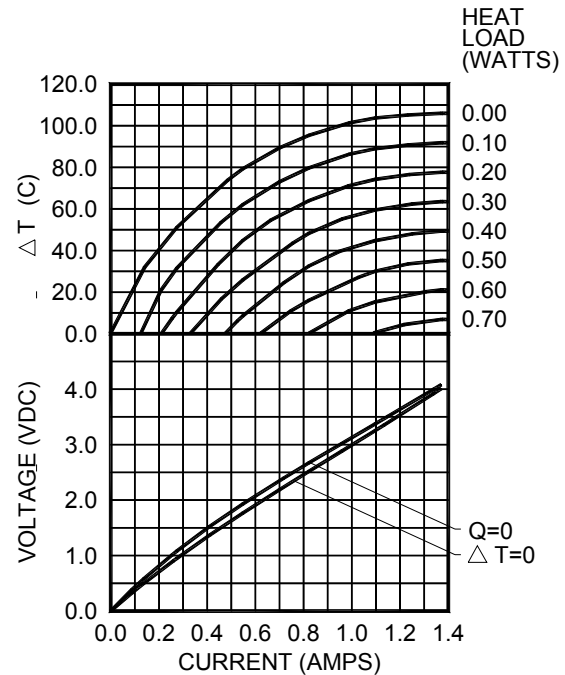
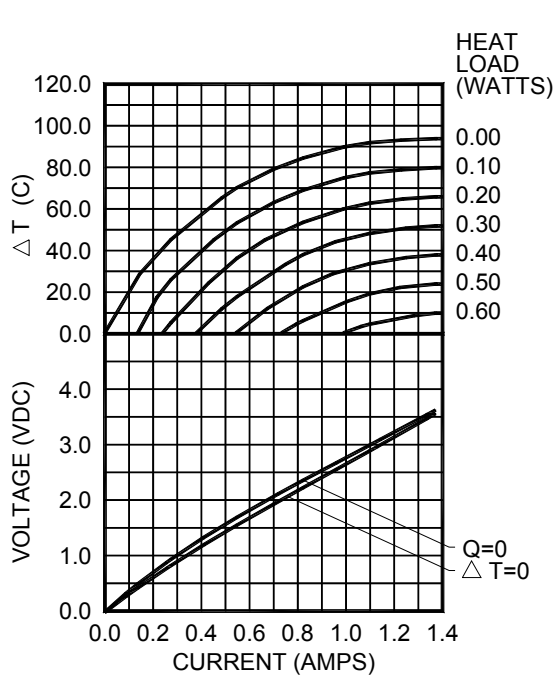
- For example, and MI3026T with only the hot side metallized is specified as an MI3026T-02AC
- Pretinned metallized ceramic surface(s) with 96°C or 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.
- Gold plating thickness is 4 to 10 microinches.

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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