



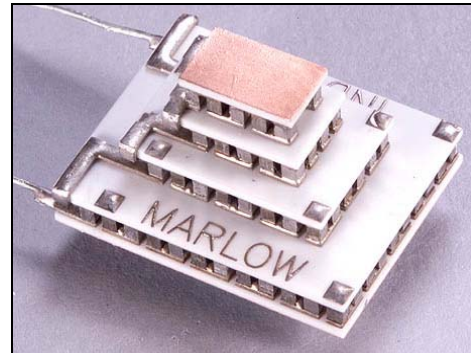
RoHS 2002/95/EC Compliant

TECHNICAL DATA SHEET

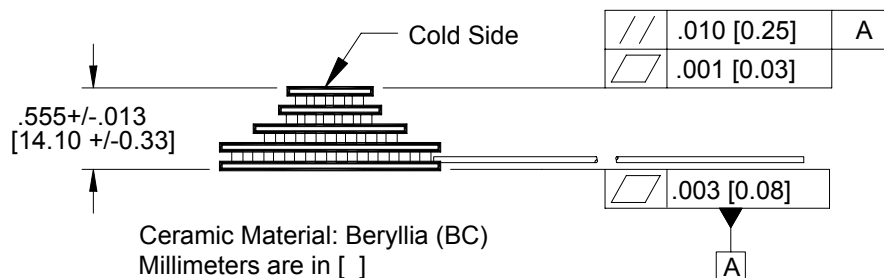
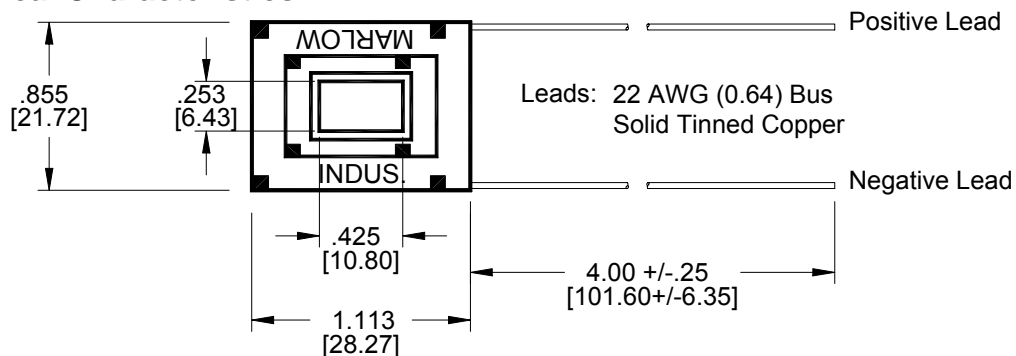
Thermoelectric Cooler NL4040

Performance Values

| | | |
|----------------------------------|------|------|
| Hot Side Temperature (°C) | 27°C | 50°C |
| Δ Tmax (°C-dry N ₂): | 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

| Model Number | Description |
|--------------|---------------------------------|
| NL4040-02BC | hot side exterior is metallized |
| NL4040-03BC | no metallization |
| NL4040-04BC | both surfaces are metallized |

Features

- **RoHS 2002/95/EC compliant**
- For example, and NL4040 with only the hot side metallized is specified as an NL4040 -02BC.

Available Modifications

- 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.

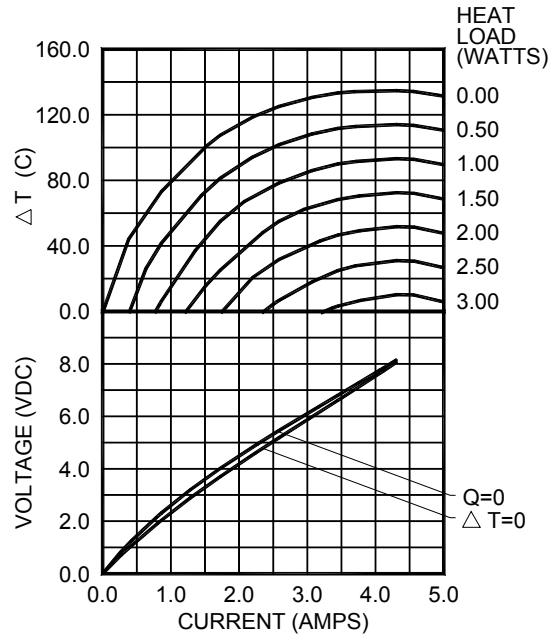
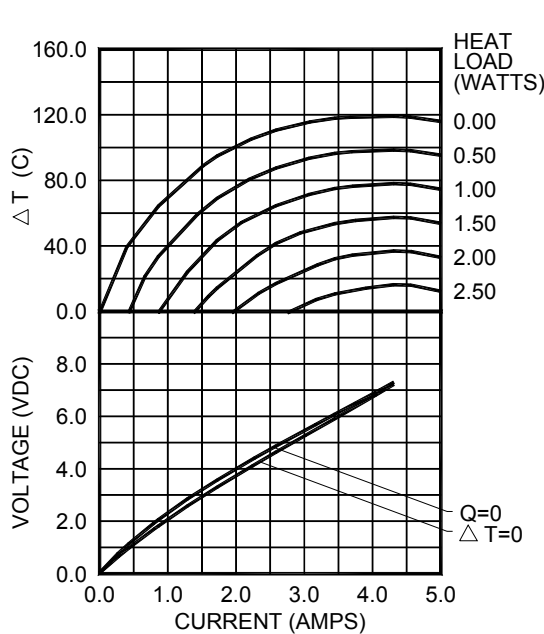


Performance Curves

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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