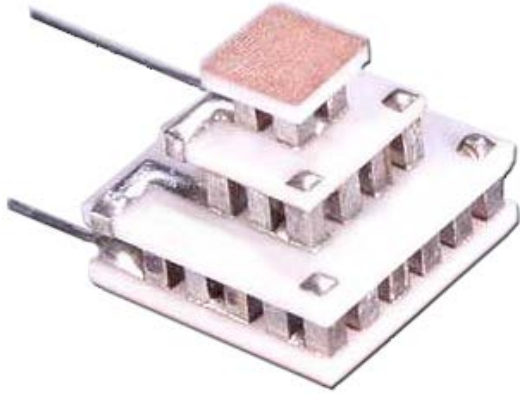




Technical Data Sheet for NL3021T-AC/-BC

Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

| | | |
|---------------------------|------|------|
| Hot Side Temperature (°C) | 27 | 50 |
| ΔT_{max} (°C): | 96 | 109 |
| Q _{max} (watts): | 0.33 | 0.38 |
| I _{max} (amps): | 1.3 | 1.3 |
| V _{max} (vdc): | 1.9 | 2.2 |
| AC Resistance (ohms): | 1.42 | -- |

PRODUCT FEATURES

- RoHS EU Compliant
- 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.

ORDERING OPTIONS

| Model Number | Description |
|--------------|--|
| NL3021T-01 | Both Surfaces are Metallized |
| NL3021T-02 | Hot Side Exterior is Metallized |
| NL3021T-03 | No Exterior Metallization |
| NL3021T-04 | Both Surfaces are Metallized with Pretinned Hot Side |

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.

INSTALLATION

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEM Installation Guide.

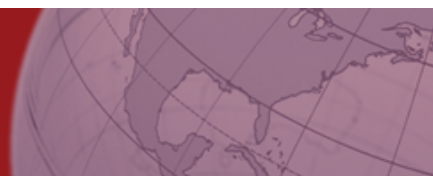
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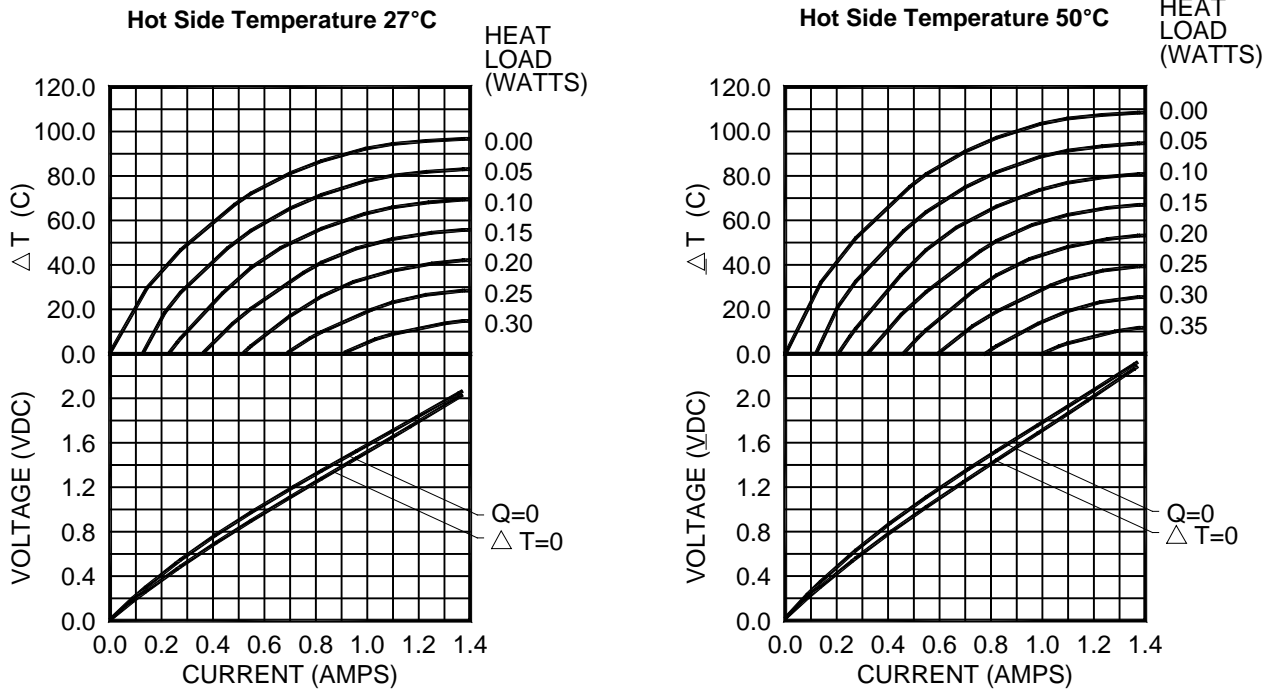
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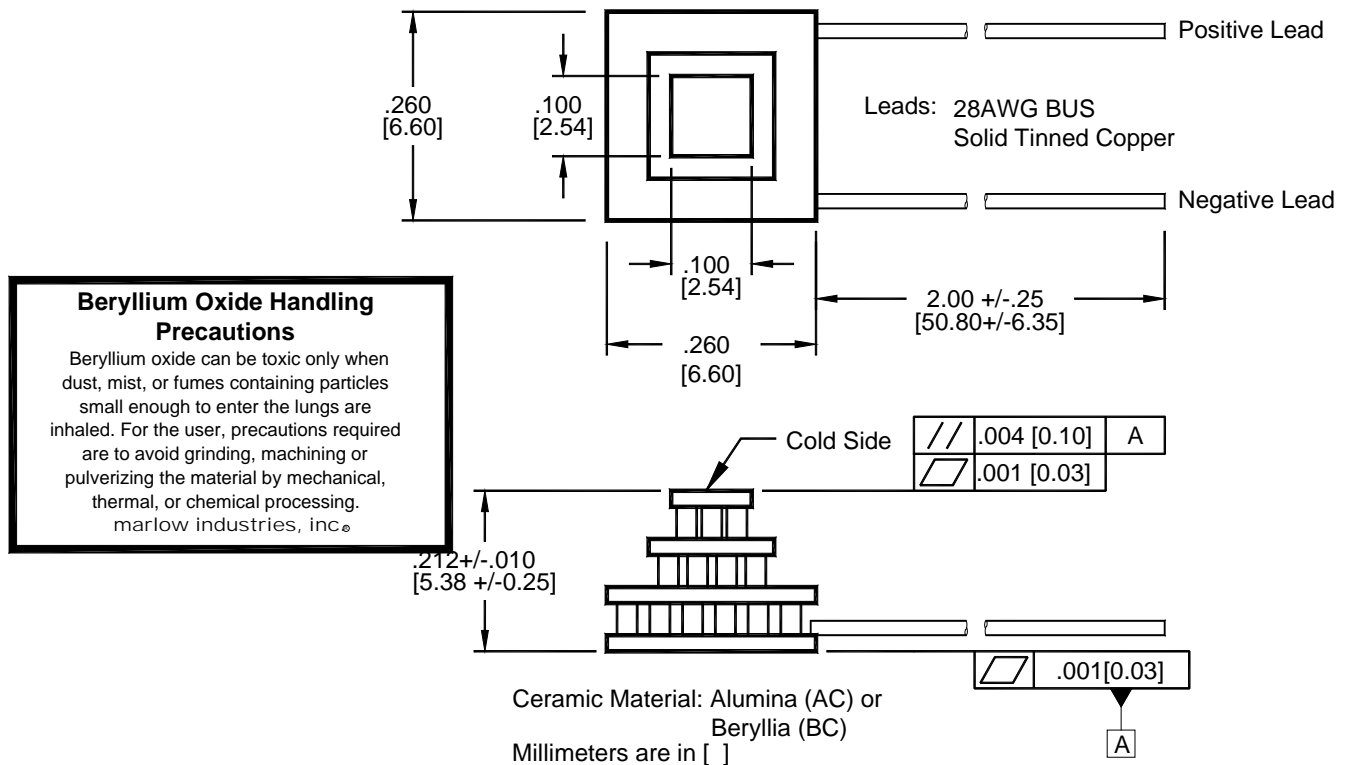
TYPICAL PERFORMANCE CURVES

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

MECHANICAL CHARACTERISTICS



All units are in inches and [] are in millimeters unless otherwise stated.

For customer support or general questions please contact a local office or visit our website at www.marlow.com. Marlow reserves the right to make product changes without notice.