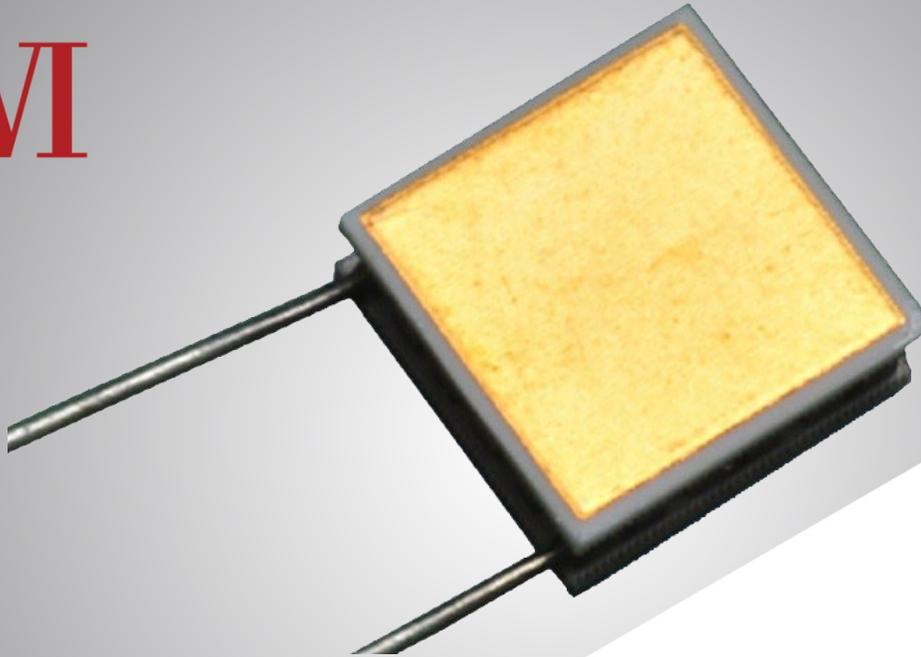


II-VI



Technical Data Sheet

For NL1013T

Single-Stage Thermoelectric Module

PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 85°C.
- Maximum processing temperature of 120°C.
- Ceramic Material: Aluminum Oxide.
- Metallized Exterior Surfaces are Au flash, suitable for soldering.

NOMINAL PERFORMANCE IN VACUUM

| | | |
|---------------------------|------|-----|
| Hot Side Temperature (°C) | 27 | 50 |
| Δ Tmax (°C): | 61 | 69 |
| Qmax (watts): | 4.8 | 5.4 |
| I _{max} (amps): | 1.0 | 1.0 |
| V _{max} (vdc): | 8.5 | 9.6 |
| AC Resistance (ohms): | 0.77 | -- |

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.

ORDERING OPTIONS

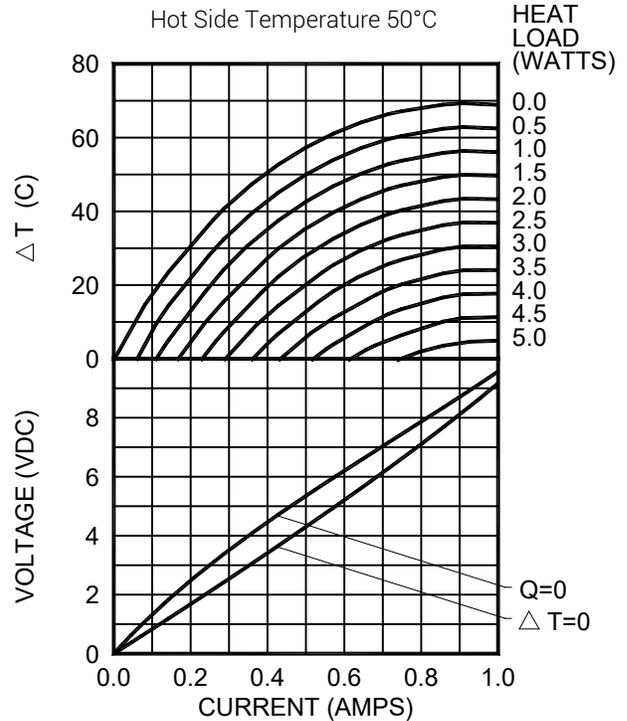
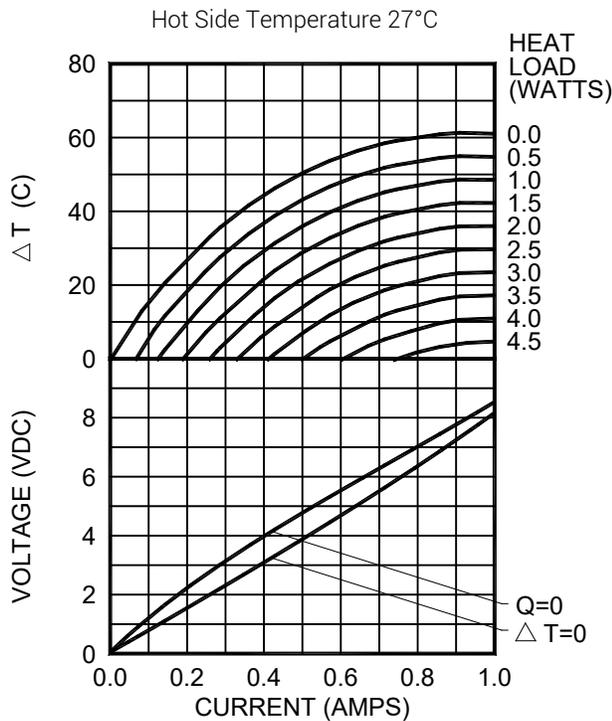
| Model Number | Description |
|--------------|----------------------------------|
| NL1013T-01AC | Top and Base Metallized Exterior |

INSTALLATION

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

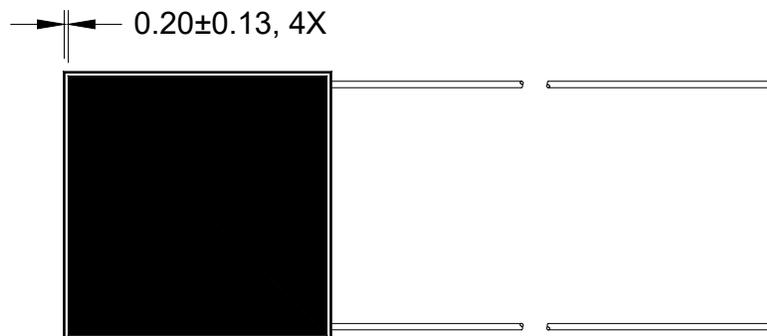
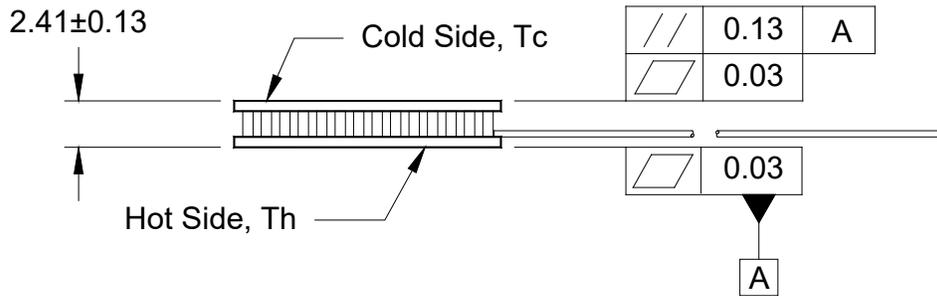
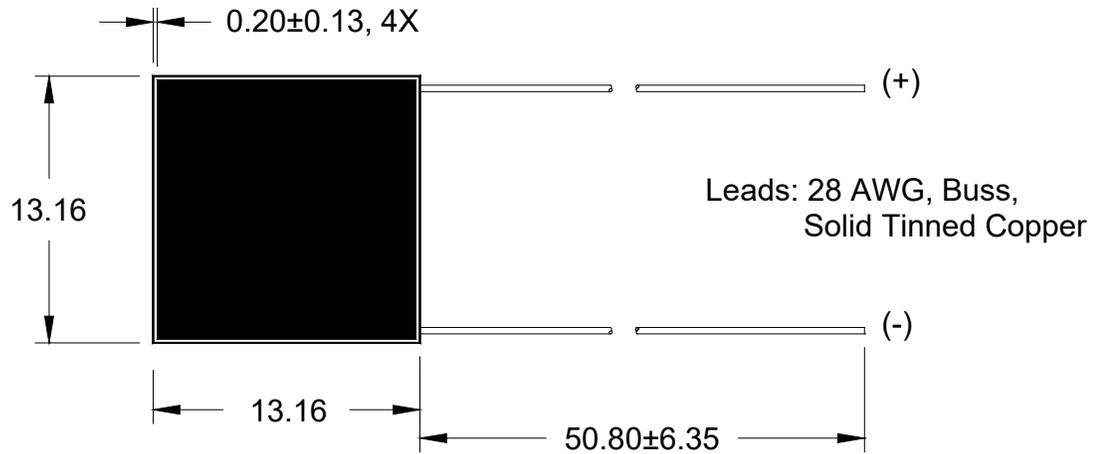
TYPICAL PERFORMANCE CURVES

ENVIRONMENT: 10⁻⁵ TORR VACUUM



For performance information in a vacuum or with hot side temperatures other than 27°C or 75°C, contact one of our Applications Engineers at 877-627-5691.

MECHANICAL CHARACTERISTICS



All units 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.