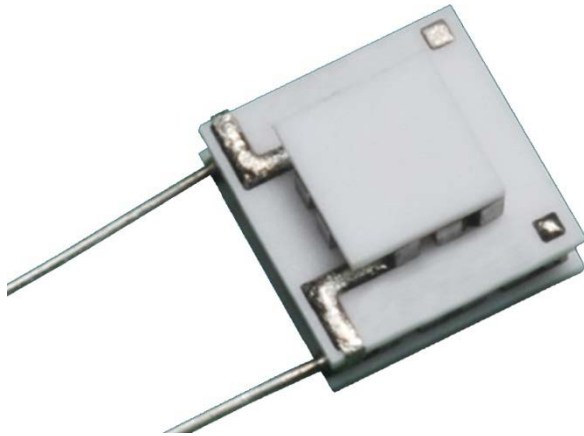




# Technical Data Sheet for NL2021T

## Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	83	94
Q <sub>max</sub> (watts):	0.92	1.02
I <sub>max</sub> (amps):	1.4	1.3
V <sub>max</sub> (vdc):	2.0	2.1
AC Resistance (ohms):	1.32	--

### 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
NL2021T-01	Both Surfaces are Metallized
NL2021T-02	Hot Side Exterior is Metallized
NL2021T-03	No Metallization

### 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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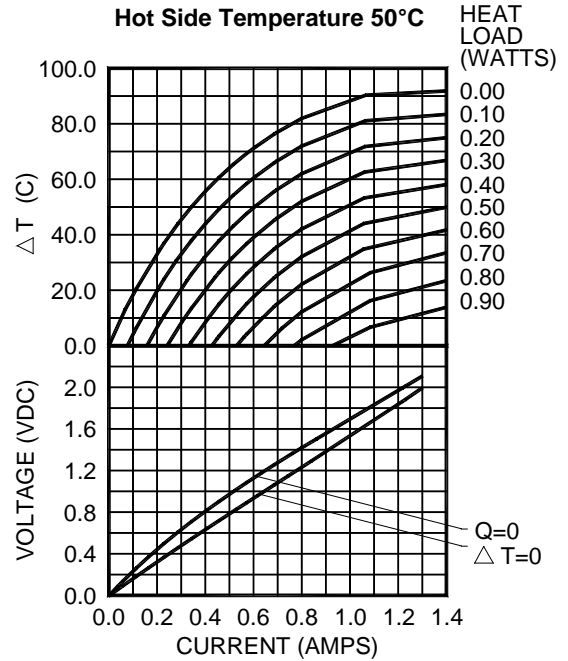
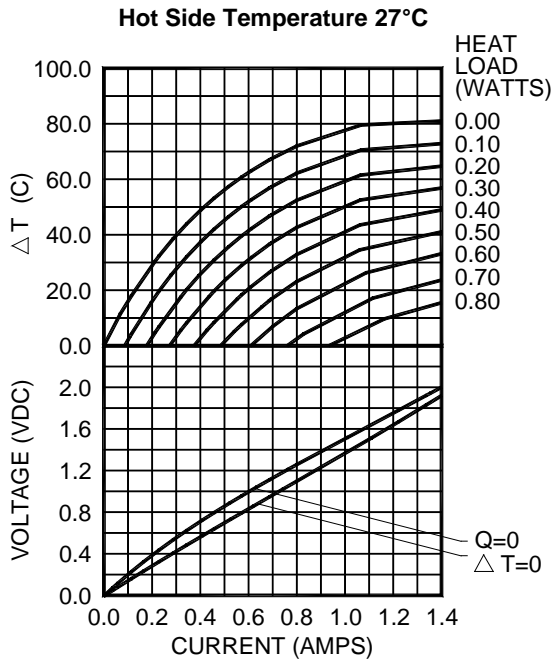
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TYPICAL PERFORMANCE CURVES

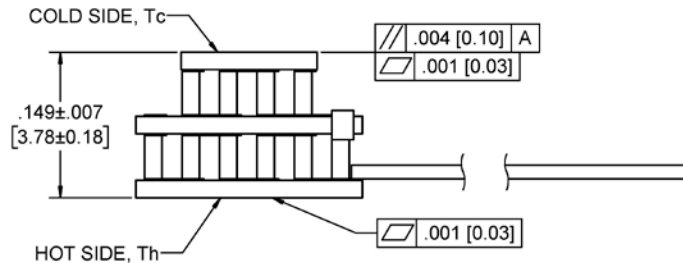
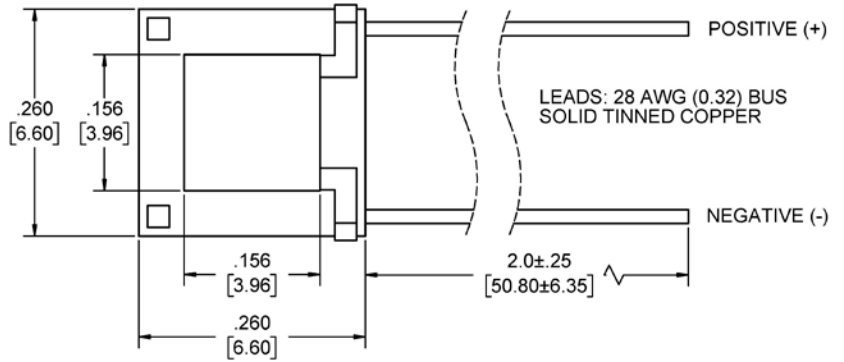
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



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

**Beryllium Oxide Handling Precautions**  
 Beryllium oxide can be toxic only when dust, mist, or fumes containing particles small enough to enter the lungs are inhaled. For the user, precautions required are to avoid grinding, machining or pulverizing the material by mechanical, thermal, or chemical processing.  
 marlow industries, inc.®



CERAMICS: ALUMINUM OXIDE (AC) OR BERYLLIUM OXIDE (BC)

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](http://www.marlow.com).

Marlow reserves the right to make product changes without notice.