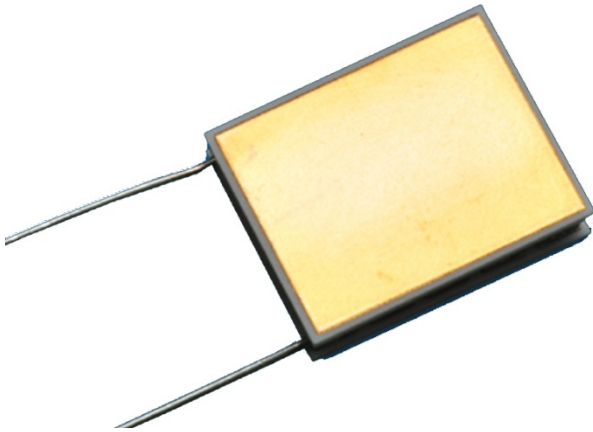




# Technical Data Sheet for NL1025T

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	64	73
Q <sub>max</sub> (watts):	5.2	5.8
I <sub>max</sub> (amps):	1.8	1.8
V <sub>max</sub> (vdc):	4.4	4.9
AC Resistance (ohms):	2.1	--

### 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
NL1025T-01AC	Both Surfaces are Metallized
NL1025T-02AC	Hot Side Exterior is Metallized
NL1025T-03AC	No Metallization
NL1025T-05AC	No Metallization, Insulated 7 Inch Leadwire
NL1025T-06AC	No Metallization, RTV Sealed
NL1025T-07AC	No Metallization, Insulated 5 Inch Leadwire

### 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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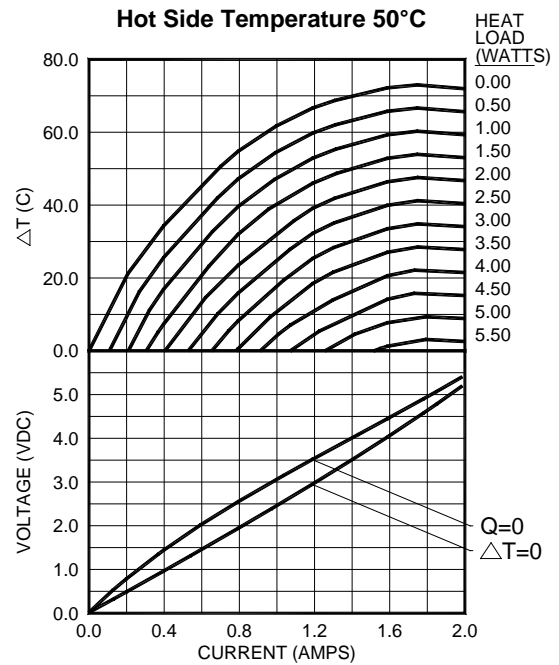
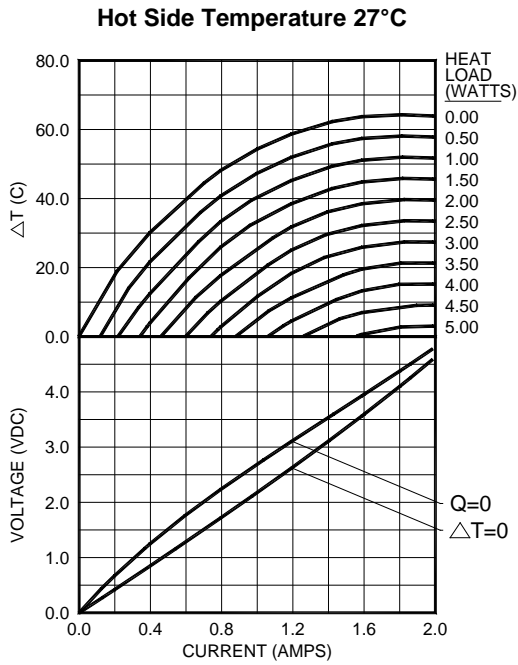
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TYPICAL PERFORMANCE CURVES

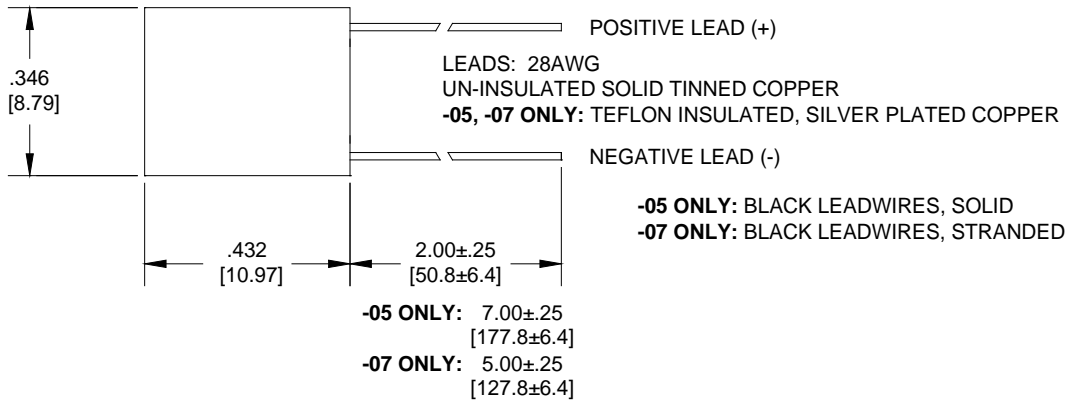
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



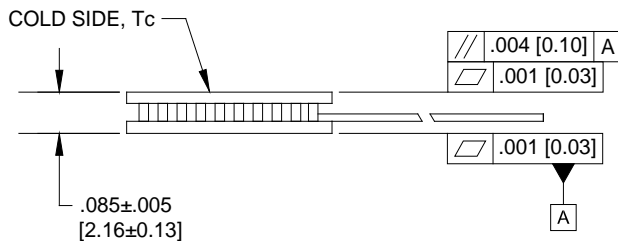
For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

MECHANICAL CHARACTERISTICS

**-05 ONLY: RED LEADWIRES, SOLID**  
**-07 ONLY: WHITE LEADWIRES, STRANDED**



**-05 ONLY: BLACK LEADWIRES, SOLID**  
**-07 ONLY: BLACK LEADWIRES, STRANDED**



CERAMIC MATERIAL: ALUMINA (AC)  
MILLIMETERS ARE IN [ ]

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.