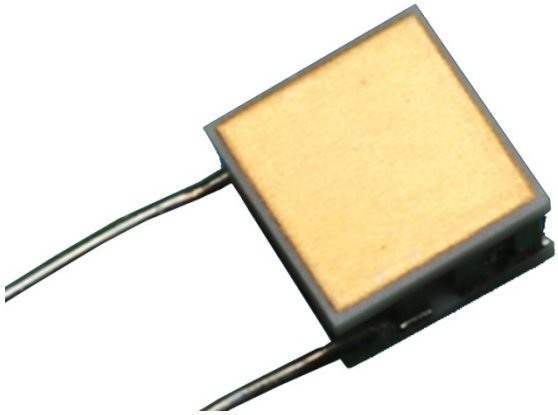
Technical Data Sheet for NL1010T

Single-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
Δ Tmax (°C):	61	67
Qmax (watts):	0.47	0.53
Imax (amps):	1.0	1.0
Vmax (vdc):	0.8	1.0
AC Resistance (ohms):	0.75	--

PRODUCT FEATURES

- RoHS EU Compliant
- Ceramic Material: Aluminum Oxide
- -01 and -02: External Metallization is Au flash, suitable for soldering.
- Maximum process temperature is 220°C.

ORDERING OPTIONS

Model Number	Description
NL1010T-01	Both Surfaces are Metallized
NL1010T-02	Hot Side Exterior is Metallized
NL1010T-03	No Metallization

OPERATION CAUTIONS

For maximum reliability, storage and operation below 130°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 TEC Installation Guide.

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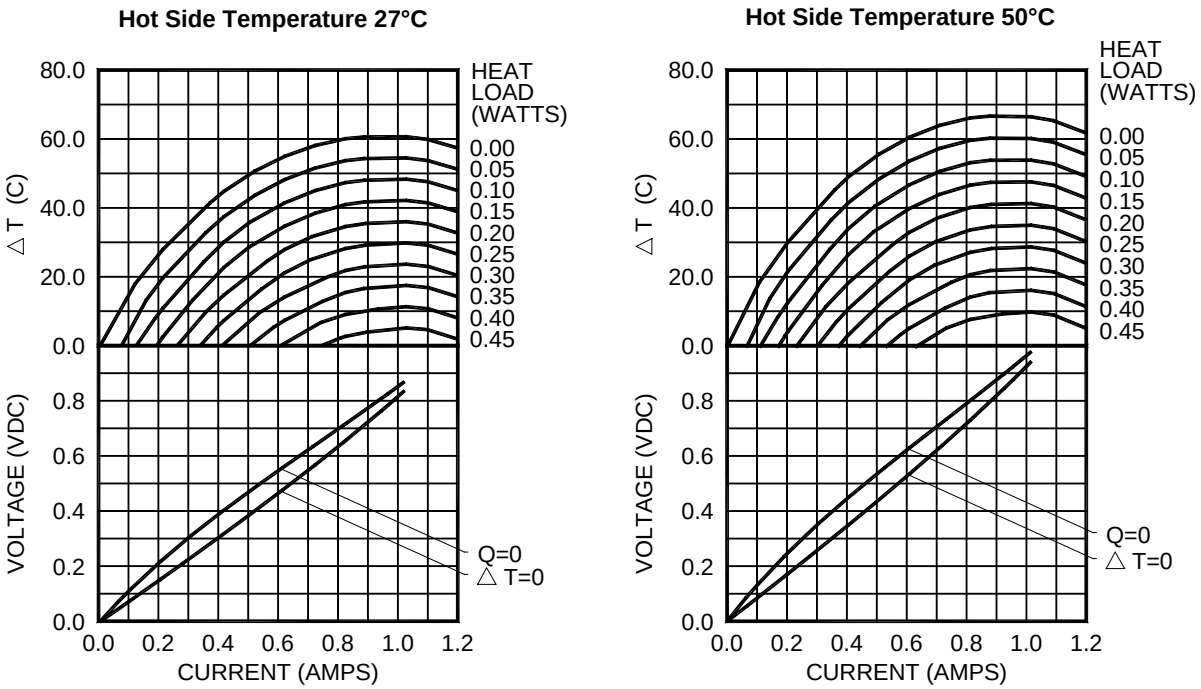
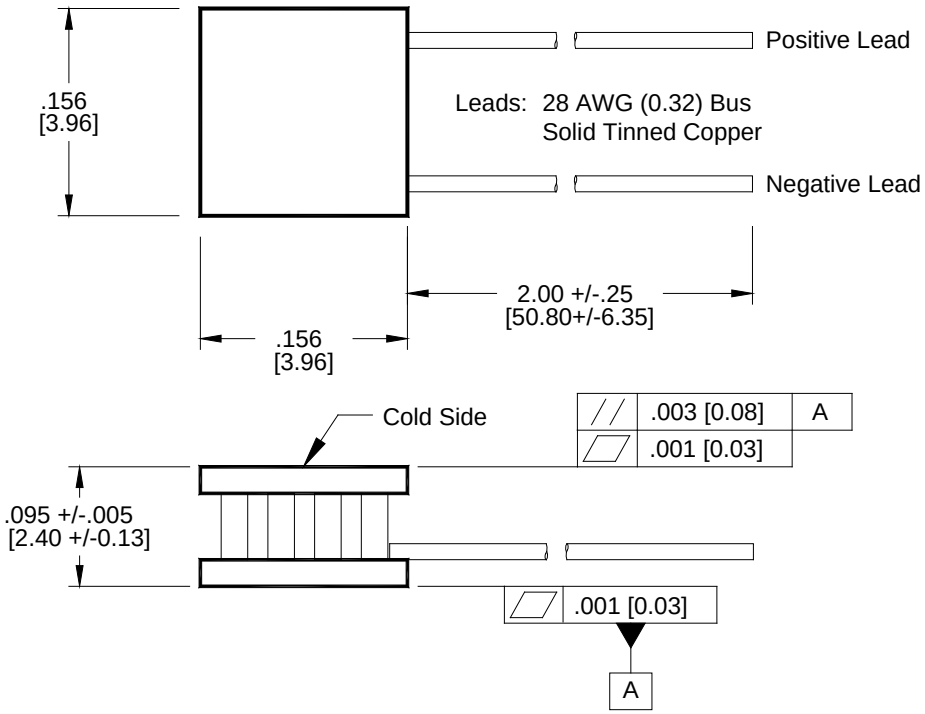
TYPICAL PERFORMANCE CURVES

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



Dimensions are in inches, and millimeters are in [ ].

For customer support or general questions please contact a local office or visit our website at www.marlow.com.