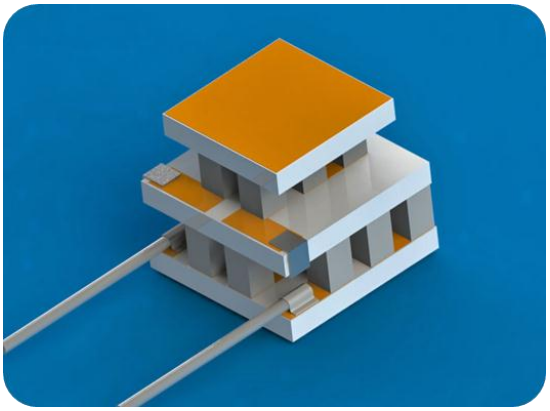
marlow industries, inc. ®
Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



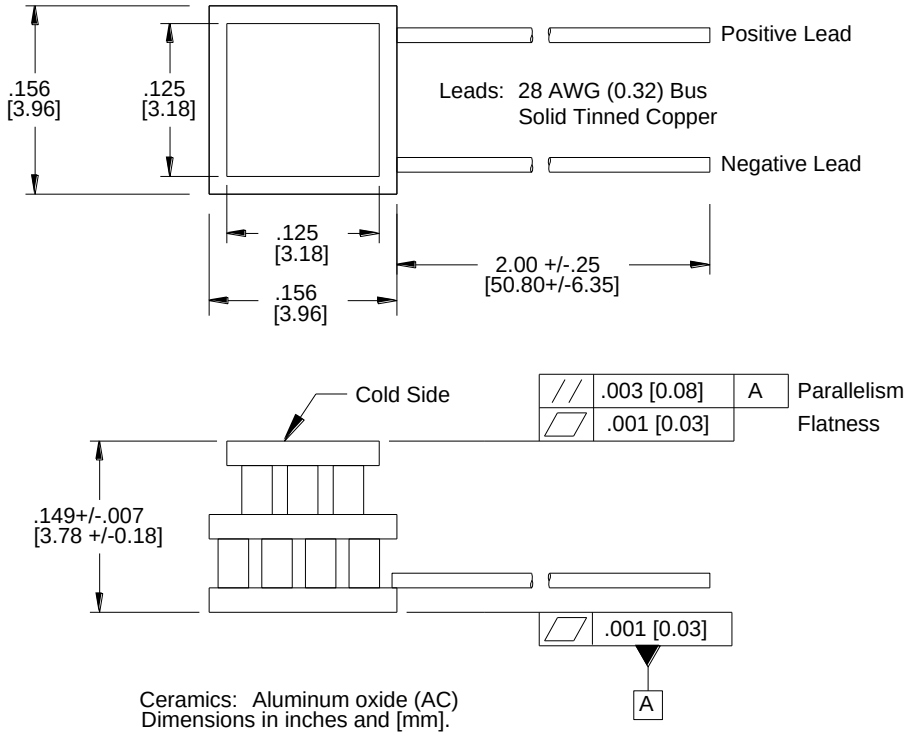
NL2022T

Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	78	89
Qmax (watts):	0.39	0.44
Imax (amps):	1.4	1.4
Vmax (vdc):	0.8	1.0
AC Resistance (ohms):	0.56	--

MECHANICAL CHARACTERISTICS



ORDERING OPTIONS

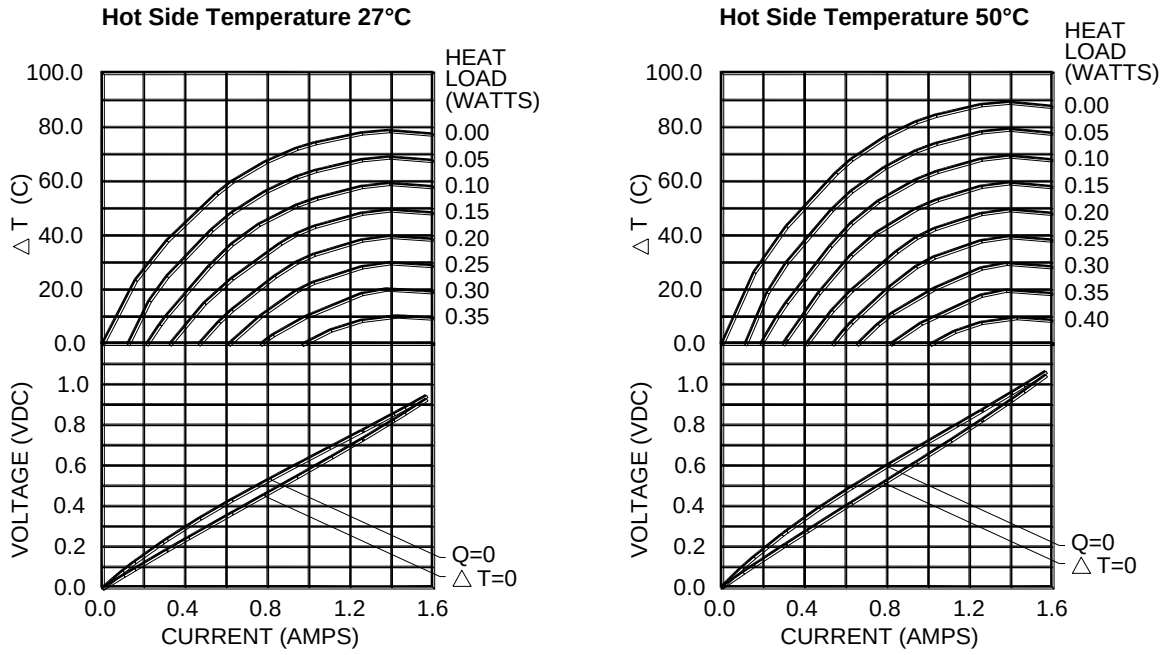
Model Number	Description
NL2022T-01	both surfaces are metallized
NL2022T-02	hot side exterior is metallized
NL2022T-03	no metallization

AVAILABLE MODIFICATIONS

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.

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, consult one of our Applications Engineers.

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

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.

CONTACT US:

For customer support or general questions please contact a local office below or consult our website for distributor information.

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