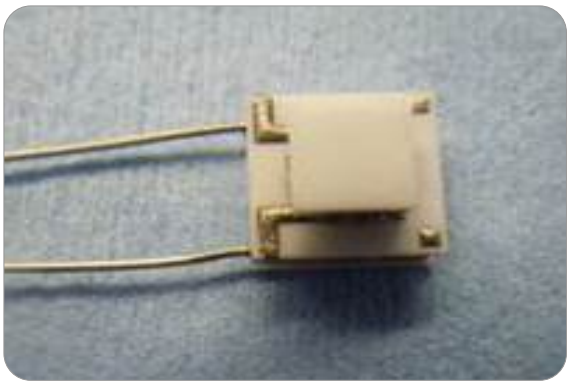
Marlow Industries, Inc.
10451 Vista Park Road
Dallas Texas 75238-1645
214-340-4900
www.marlow.com

TECHNICAL DATA SHEET



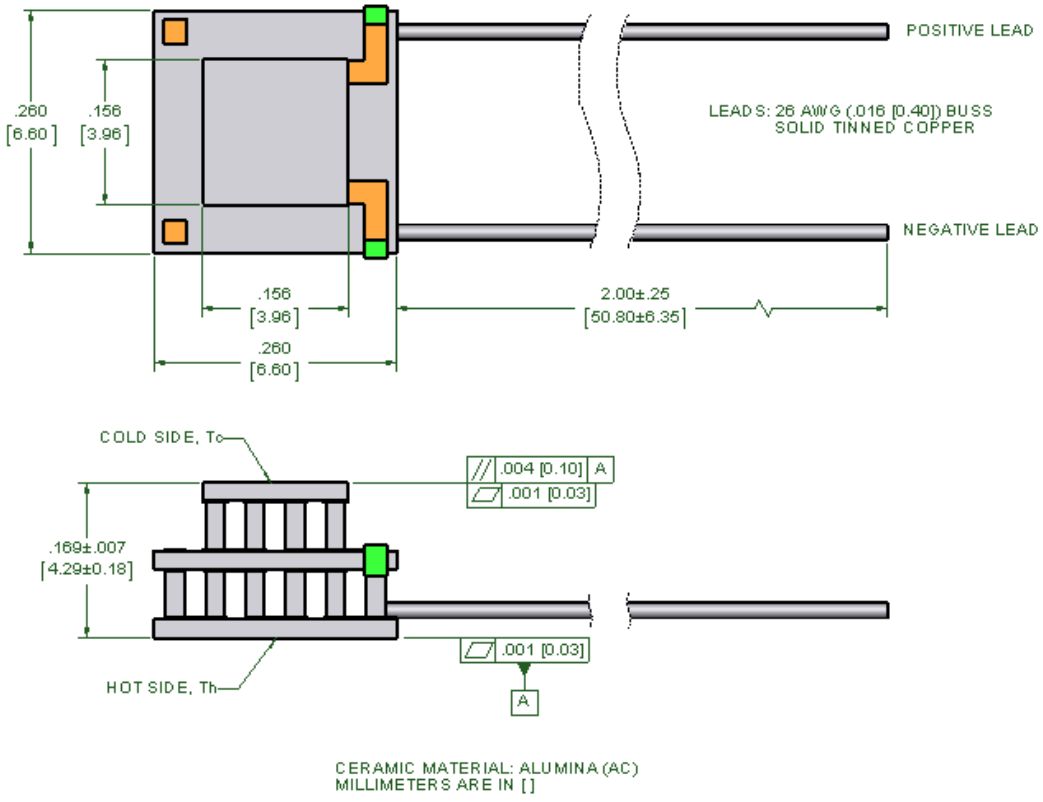
NL2011T

Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	76	87
Qmax (watts):	0.47	0.53
Imax (amps):	0.7	0.7
Vmax (vdc):	1.9	2.2
AC Resistance (ohms):	2.52	--

MECHANICAL CHARACTERISTICS



ORDERING OPTIONS

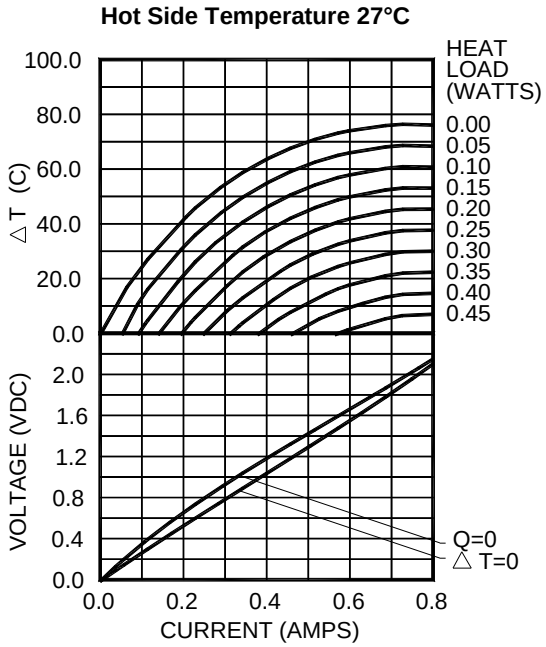
Model Number	Description
NL2011T-01	both surfaces are metallized
NL2011T-02	hot side exterior is metallized
NL2011T-03	no metallization

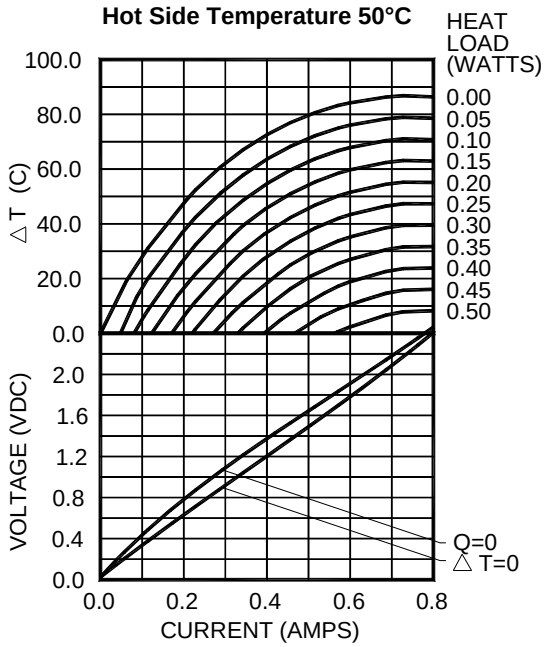
AVAILABLE MODIFICATIONS

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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