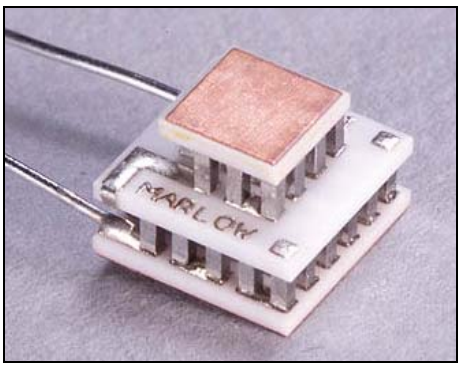
TECHNICAL DATA SHEET

Thermoelectric Cooler NL2011T

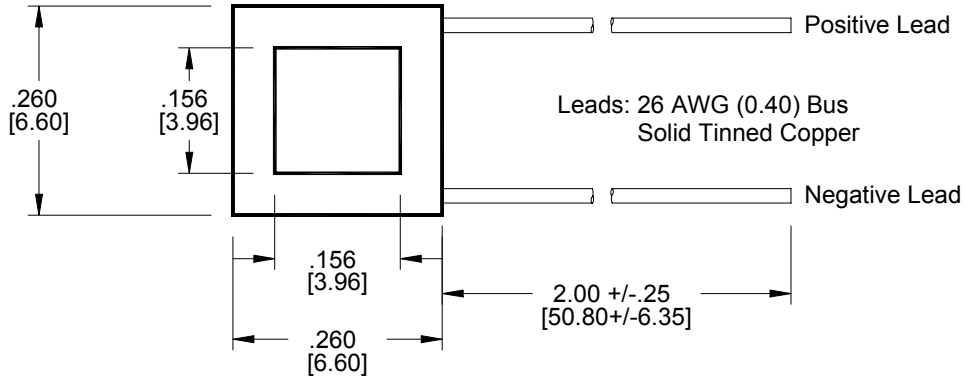
RoHS 2002/95/EC Compliant

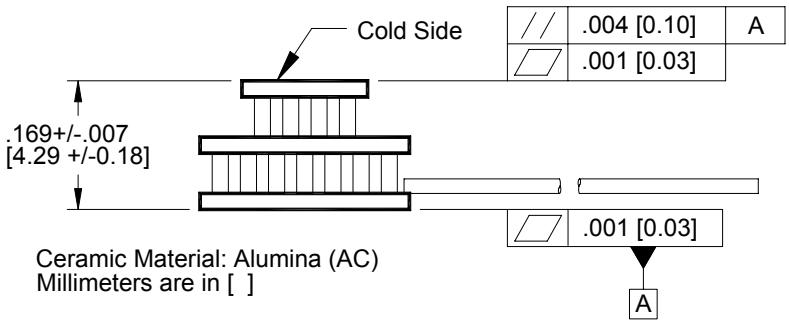
Performance Values

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

Features

- **RoHS 2002/95/EC compliant**
- For example, and NL2011T with only the hot side metallized is specified as an NL2011T-02AC

Available Modifications

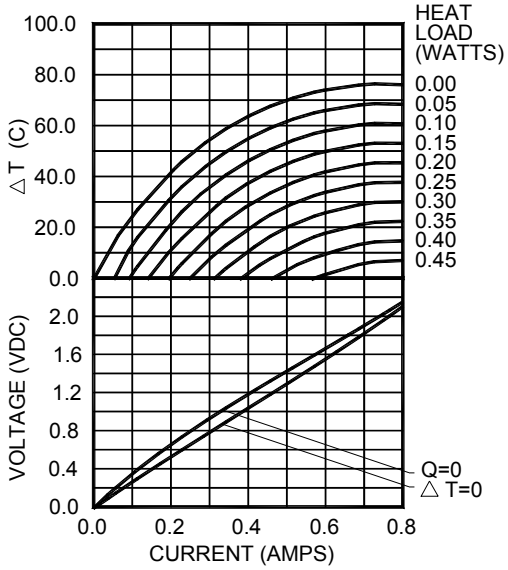
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

TECHNICAL DATA SHEET

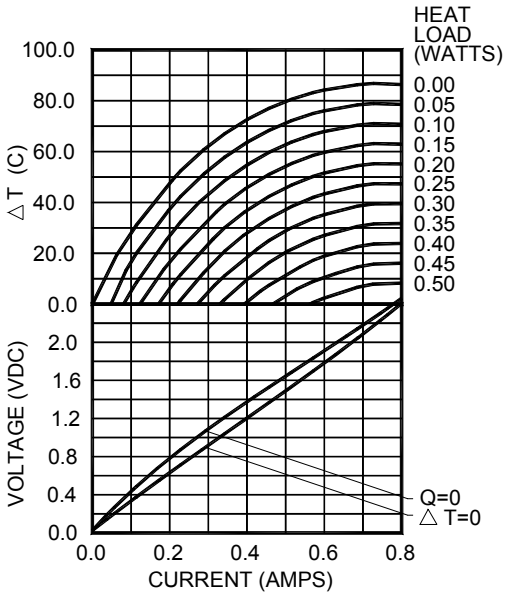
Performance Curves

Environment: One atmosphere dry nitrogen

Hot Side Temperature: 27°C



Hot Side Temperature: 50°C



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.

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