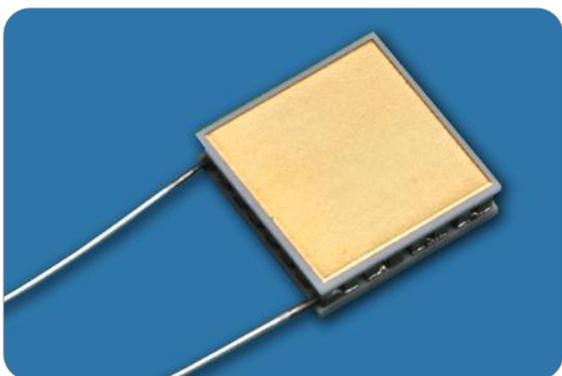




marlow industries, inc.®
Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



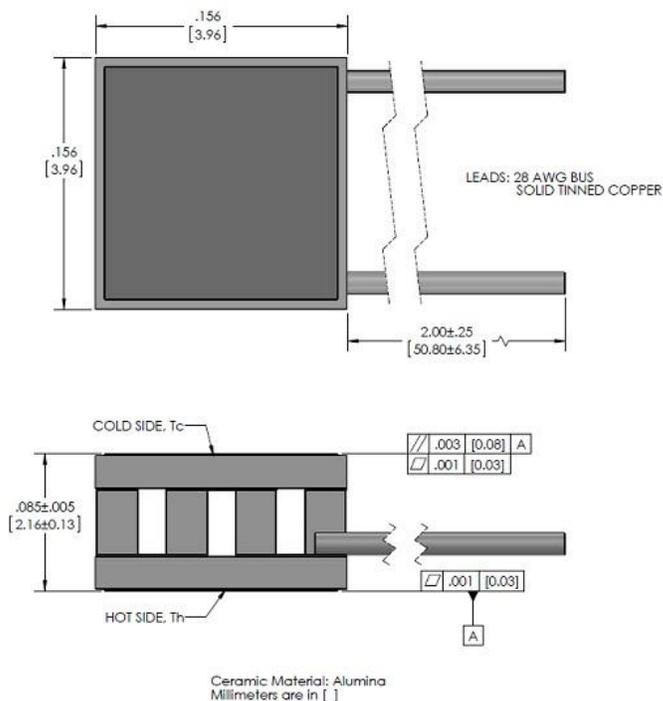
NL1020T

Single-Stage Thermoelectric Cooler
RoHS and REACH EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	64	72
Qmax (watts):	0.90	1.0
Imax (amps):	1.8	1.8
Vmax (vdc):	0.8	0.9
AC Resistance (ohms):	0.40	--

MECHANICAL CHARACTERISTICS



-01AC, -02AC, -03AC

ORDERING OPTIONS

Model Number	Description
NL1020T-01AC	Both surfaces are metallized
NL1020T-02AC	Hot side exterior is metallized
NL1020T-03AC	No metallization
NL1020T-04AC	No metallization, Insulated Leads, Perimeter Sealed
NL1020T-05AC	No metallization, Insulated Leads

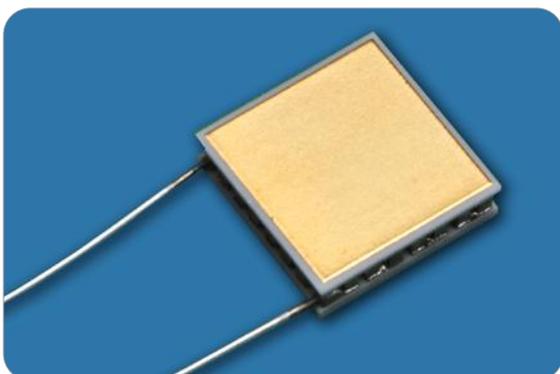
AVAILABLE MODIFICATIONS

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.



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TECHNICAL DATA SHEET



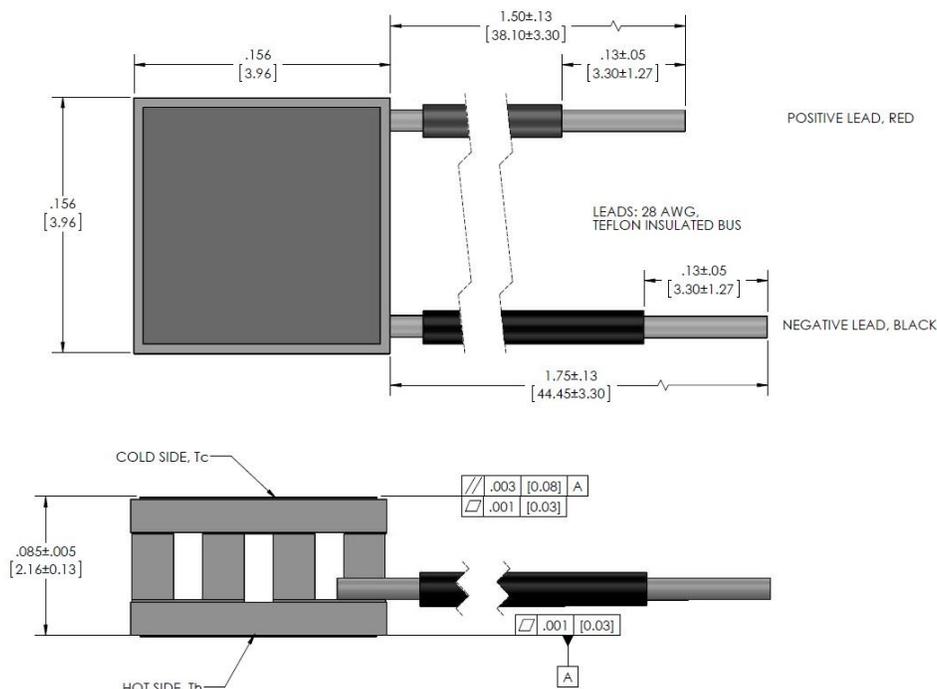
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MECHANICAL CHARACTERISTICS



Ceramic Material: Alumina
Millimeters are in []

-04AC, -05AC

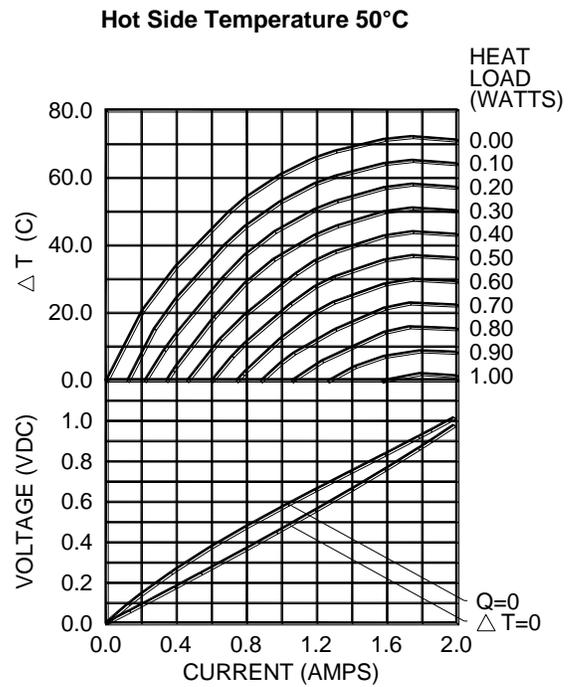
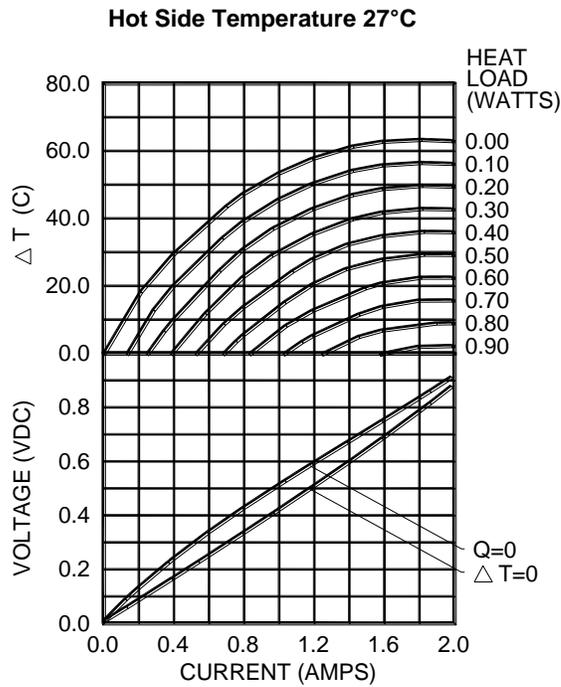
ORDERING OPTIONS

Model Number	Description
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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.

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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