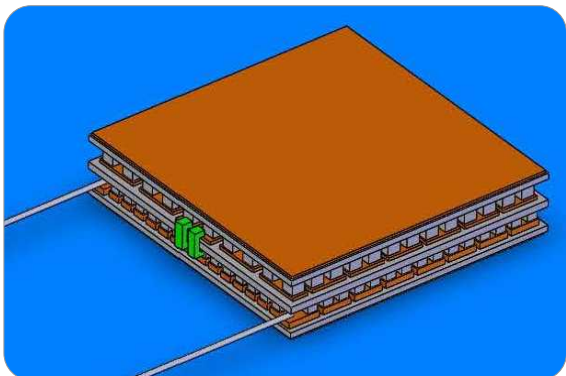




marlow industries, inc.®
Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



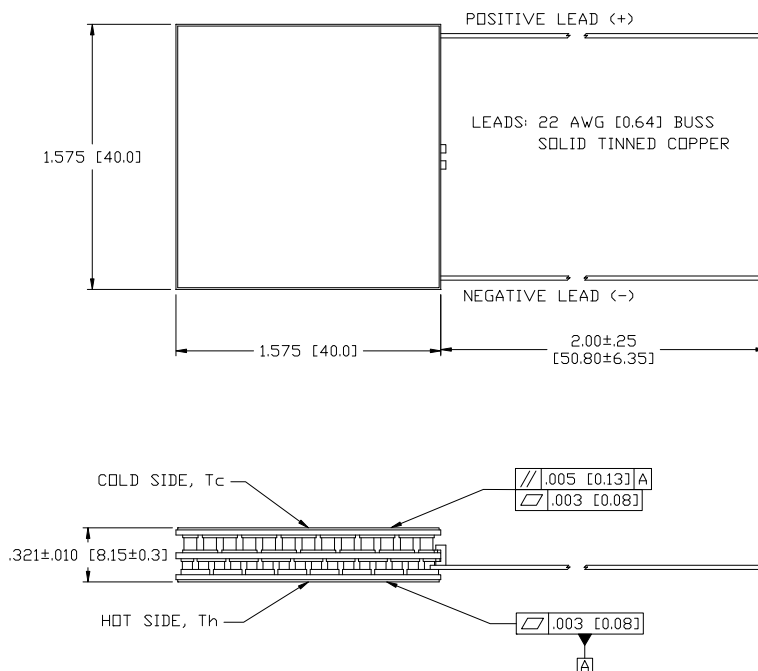
NL2075

Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Nitrogen		
Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C):	80	90
Qmax (watts):	44.0	49.0
Imax (amps):	7.1	7.0
Vmax (vdc):	15.4	17.2
AC Resistance (ohms):	2.10	--
Vacuum		
Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C):	87	99
Qmax (watts):	44.5	49.5
Imax (amps):	7.0	7.0
Vmax (vdc):	15.4	17.1
AC Resistance (ohms):	2.10	--

MECHANICAL CHARACTERISTICS



Dimensions are shown inches [millimeters].

ORDERING OPTIONS

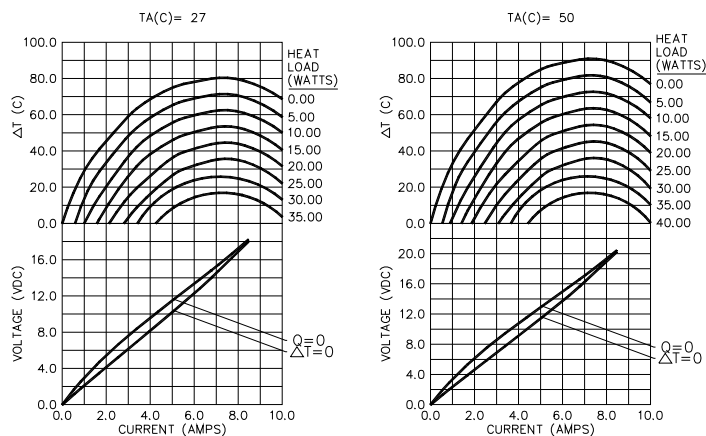
Model Number	Description
NL2075-01AC	both surfaces are metallized
NL2075-02AC	hot side exterior is metallized
NL2075-03AC	no metallization
NL2075-04AC	-02AC with hot side pretinned with 117°C solder
NL2075-05AC	-03AC with 8 inches insulated wires

AVAILABLE MODIFICATIONS

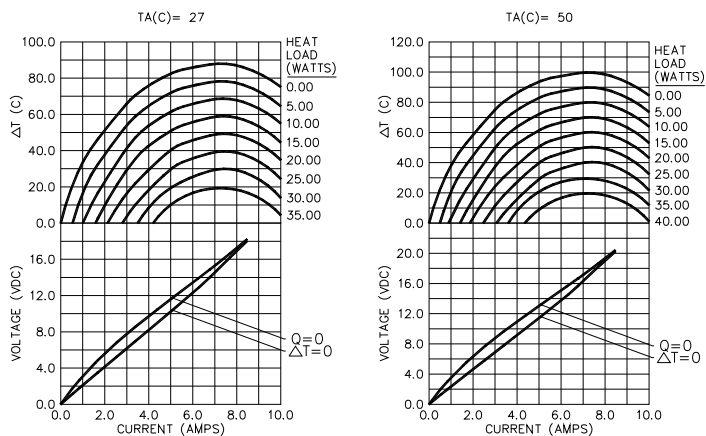
Ideal for large temperature differentials (ΔT) and large heat pumping applications.
Pretinned metallized ceramic surface(s) with 96°C or 117°C solder.
Thermistor mounted on edge of cold side ceramic. (Calibration available.)
Custom designs available to meet any multistage application.

ENVIRONMENT:

Nitrogen



Vacuum



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.

Marlow Industries, Inc.
 10451 Vista Park Road
 Dallas Texas 75238-1645
 214-340-4900 (tel)
 214-341-5212 (fax)
 www.marlow.com

Marlow Industries Europe GmbH
 Brunnenweg 19-21
 64331 Weiterstadt
 Germany
 Tel.: +49 (0) 6150 5439 - 403
 Fax: +49 (0) 6150 5439 - 400
 info@marlow-europe.eu

II-VI Japan Inc.
 WBG Marive East 17F
 2-6 Nakase, Mihama-ku
 Chiba-Shi, Chiba 261-7117
 Japan
 81 43 297 2693 (tel)
 81 43 297 3003 (fax)
 center@ii-vi.co.jp
 www.ii-vi.co.jp

II-VI Singapore Pte., Ltd.
 Blk. 5012, Techplace II
 #04-07 & 05-07/12, Ang Mo Kio Ave. 5
 Singapore 569876
 (65) 6481 8215 (tel)
 (65) 6481 8702 (fax)
 info@ii-vi.com.sg
 www.ii-vi.com.sg

Marlow Industries China, II-VI
 Technologies Beijing
 A subsidiary of II-VI Incorporated
 Rm 202, 1# Lize 2nd Middle Road
 Wangjing, Chaoyang District
 Beijing 100102 China
 010-64398226 ext 105 (tel)
 010-64399315 (fax)
 info@iivibj.com