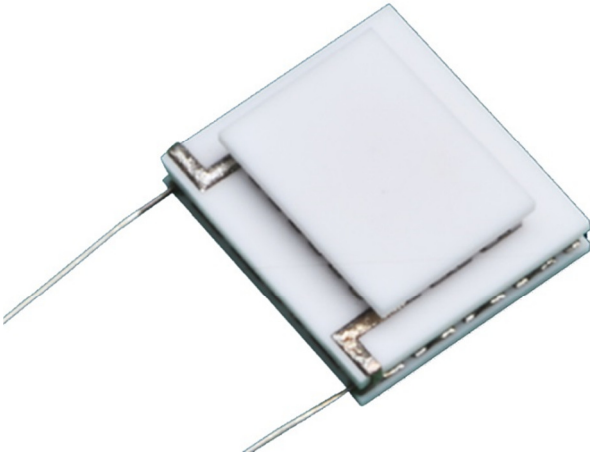




Technical Data Sheet for NL2012T

Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C):	77	88
Q _{max} (watts):	2.4	2.5
I _{max} (amps):	1.2	1.2
V _{max} (vdc):	5.4	6.1
AC Resistance (ohms):	4.18	--

PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 85°C
- Maximum processing temperature of 120°C
- AC Suffix indicates Aluminum oxide ceramics.
- AB Suffix indicates Aluminum oxide ceramics top and base, and Beryllium oxide mid-ceramic.

ORDERING OPTIONS

Model Number	Description
NL2012T-01AC	Both Surfaces are Metallized
NL2012T-01BC	Both Surfaces are Metallized
NL2012T-02AC	Hot Side Exterior is Metallized
NL2012T-02BC	Hot Side Exterior is Metallized
NL2012T-03AC	No Metallization
NL2012T-03BC	No Metallization

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.

INSTALLATION

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

II-VI Marlow – Dallas, TX USA
214-340-4900
877-627-5691
marlow.sales@ii-vi.com

Marlow Industries Europe
GmbH - Germany
+49 (0) 6150 5439 - 403
info@marlow-europe.eu

II-VI Japan Inc.
81 43 297 2693 (tel)
center@ii-vi.co.jp
www.ii-vi.co.jp

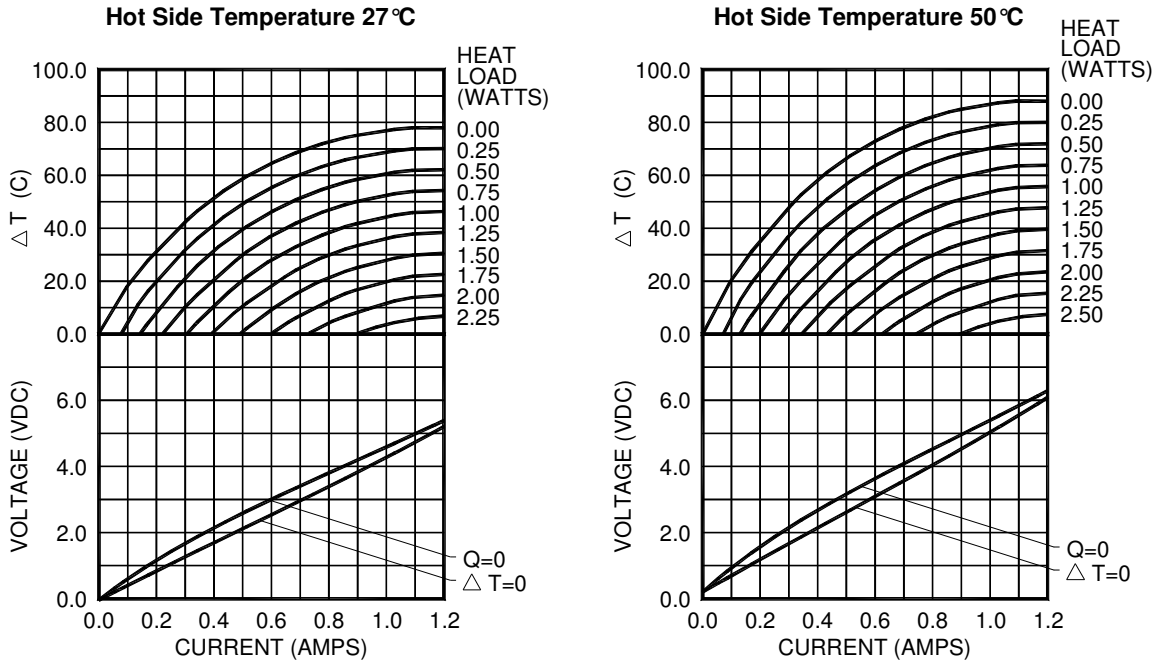
II-VI Singapore Pte., Ltd.
(65) 6481 8215 (tel)
info@ii-vi.com.sg

Marlow Industries China, II-VI
Technologies Beijing
86-10-643 98226
info@iivibj.com



TYPICAL PERFORMANCE CURVES

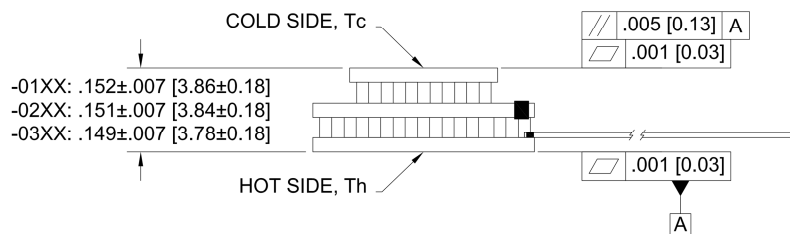
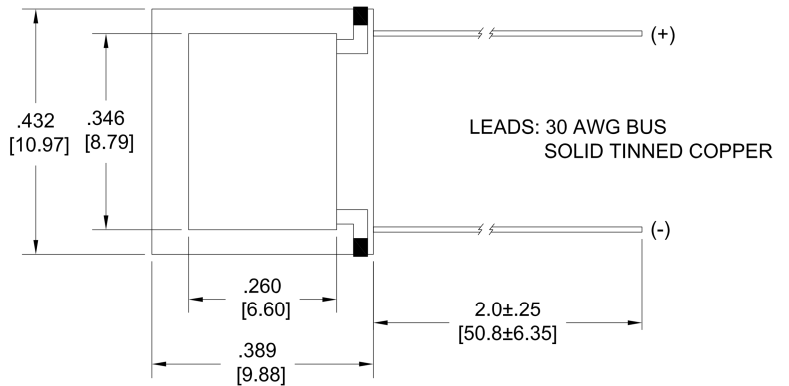
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

MECHANICAL CHARACTERISTICS

Beryllium Oxide Handling Precautions
 Beryllium oxide can be toxic only when dust, mist, or fumes containing particles small enough to enter the lungs are inhaled. For the user, precautions required are to avoid grinding, machining or pulverizing the material by mechanical, thermal, or chemical processing.
marlow industries, inc.



All units are in inches and [] are in millimeters unless otherwise stated.

For customer support or general questions please contact a local office or visit our website at www.marlow.com. Marlow reserves the right to make product changes without notice.