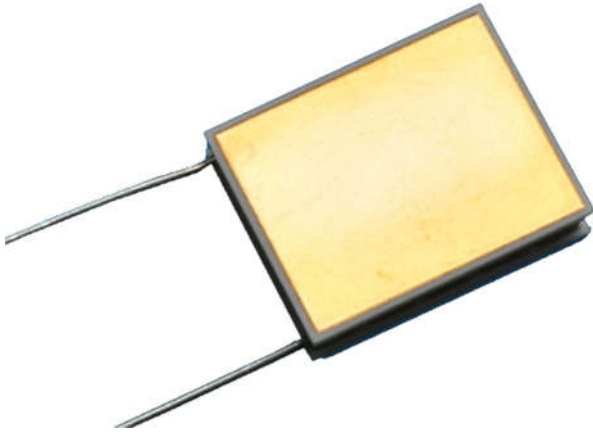




Technical Data Sheet for NL1025T

Single-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C):	64	73
Q _{max} (watts):	5.2	5.8
I _{max} (amps):	1.8	1.8
V _{max} (vdc):	4.4	4.9
AC Resistance (ohms):	2.1	--

PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 85°C
- Maximum processing temperature of 220°C
- Ceramic Material: Aluminum Oxide.

ORDERING OPTIONS

Model Number	Description
NL1025T-01AC	Both Surfaces are Metallized
NL1025T-02AC	Hot Side Exterior is Metallized
NL1025T-03AC	No Metallization
NL1025T-05AC	No Metallization, Insulated 7 Inch Leadwire
NL1025T-06AC	No Metallization, RTV Sealed
NL1025T-07AC	No Metallization, Insulated 5 Inch Leadwire

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.

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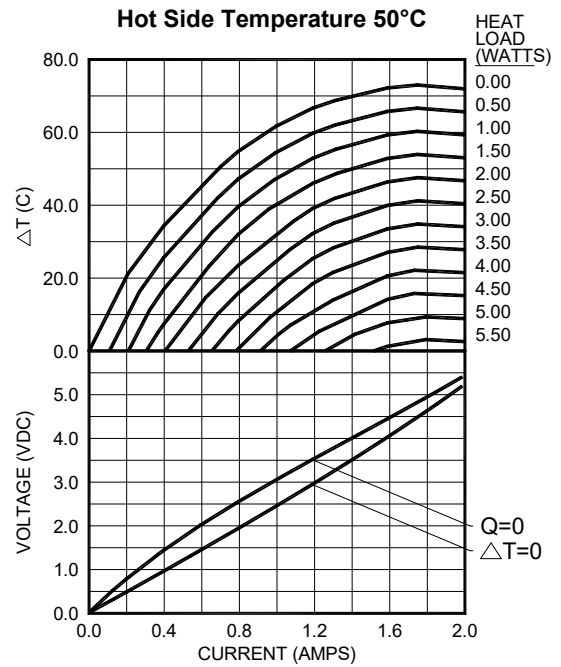
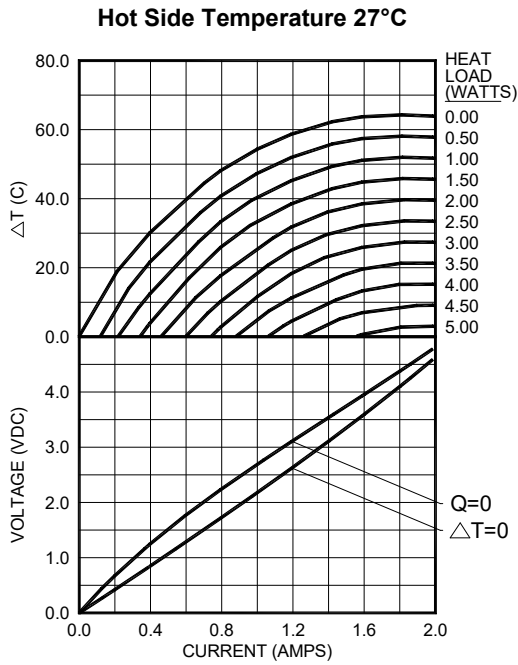
II-VI Singapore Pte., Ltd.
(65) 6481 8215 (tel)
info@ii-vi.com.sg

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86-10-643 98226
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TYPICAL PERFORMANCE CURVES

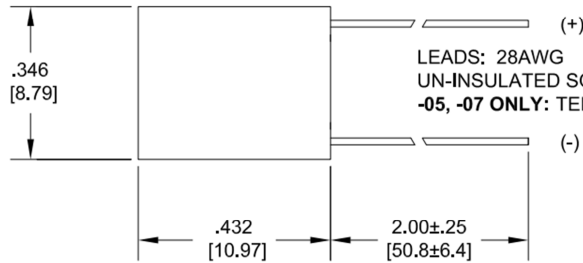
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



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.

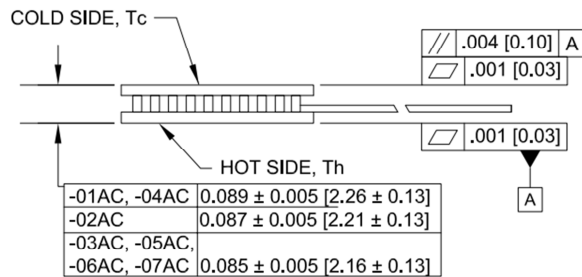
MECHANICAL CHARACTERISTICS

-05 ONLY: RED LEADWIRES, SOLID
-07 ONLY: WHITE LEADWIRES, STRANDED



-05 ONLY: 7.00±.25 [177.8±6.4]
-07 ONLY: 5.00±.25 [127.8±6.4]

-05 ONLY: BLACK LEADWIRES, SOLID
-07 ONLY: BLACK LEADWIRES, STRANDED



CERAMIC MATERIAL: ALUMINA (AC)
MILLIMETERS ARE IN []

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.