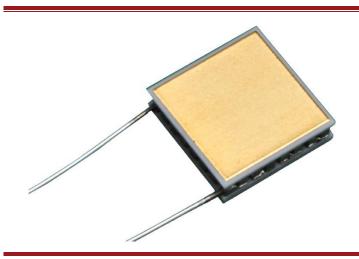




Technical Data Sheet for NL1020T

Single-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

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

PRODUCT FEATURES

- RoHS EU Compliant
- REACH EU Compliant
- Ceramic Material: Aluminum Oxide
- -01AC, -02AC: External Metallization is Au flash, suitable for soldering.
- RTV sealing option available.
- Maximum process temperature is 120°C.

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
NI 1020T-05AC	No metallization. Insulated Leads

OPERATION CAUTIONS

For maximum reliability, storage and operation below 100°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.

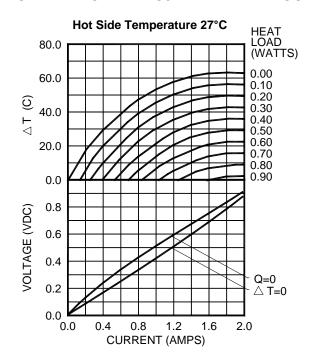
INSTALLATION

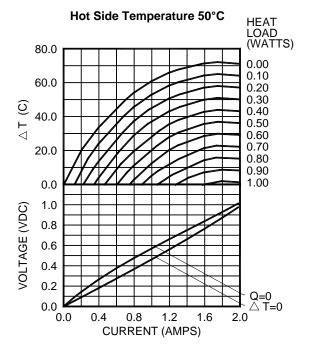
Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEC Installation Guide.

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



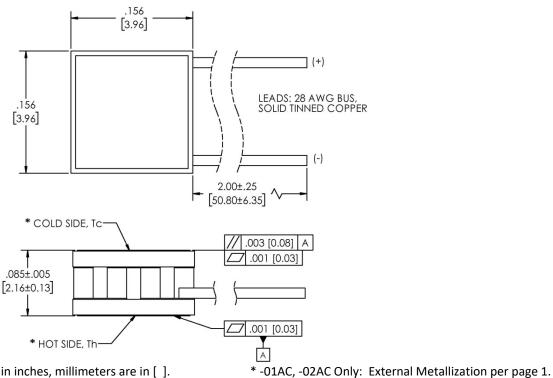
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN





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.





Dimensions are in inches, millimeters are in []. * -01AC, -01AC, -02AC, -03AC

.156 1.50±.13 [3.96] [38.10±3.30] .13±.05 [3.18±1.27] (+), RED .156 LEADS: 28 AWG, TEFLON INSULATED, BUS [3.96] (-), BLACK .13±.05 [3.18±1.27] 1.75±.13 [44.45±3.30] COLD SIDE, To .003 [0.08] A .001 [0.03] .085±.005

[2.16±0.13]

HOT SIDE, Th

-04AC ONLY:
PERIMETER SEALED

A

Dimensions are in inches, and millimeters are in [].

-04AC, -05AC

For customer support or general questions please contact a local office or visit our website at www.marlow.com.