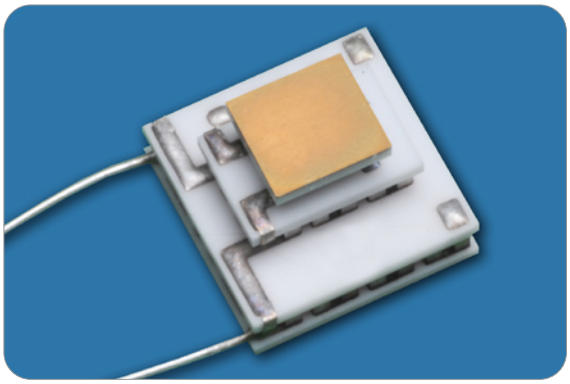
marlow industries, inc. ®
Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



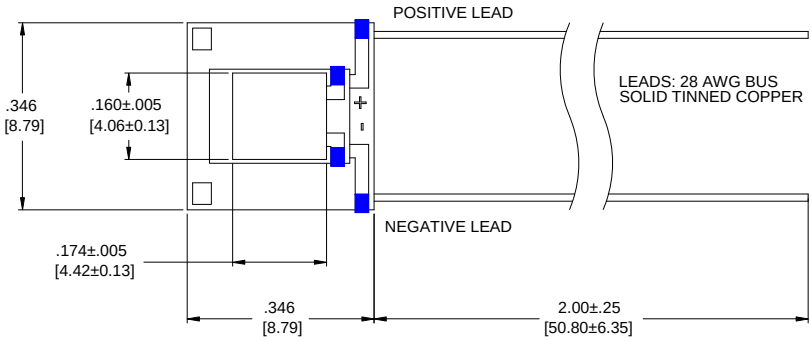
NL3026T

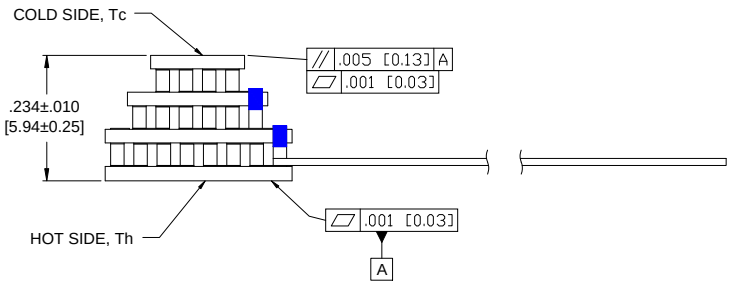
Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	93	106
Qmax (watts):	0.62	0.71
Imax (amps):	1.3	1.3
Vmax (vdc):	3.4	3.9
AC Resistance (ohms):	2.51	--

MECHANICAL CHARACTERISTICS





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

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.

ORDERING OPTIONS

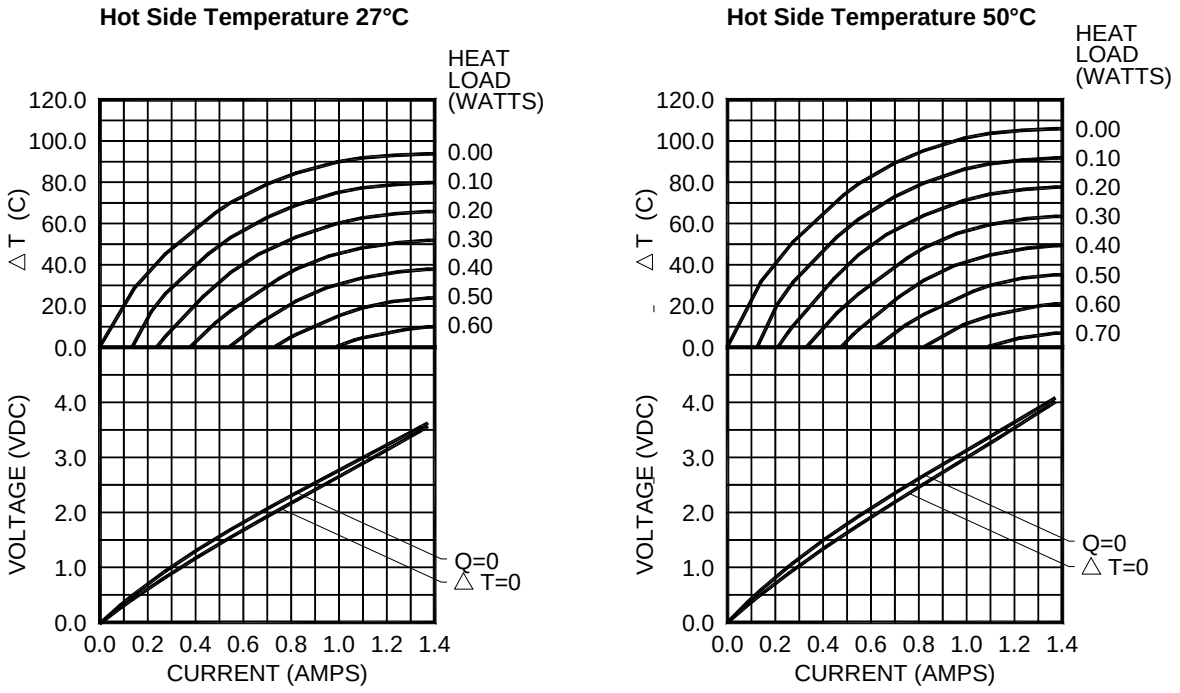
Model Number	Description
NL3026T-01	both surfaces are metallized
NL3026T-02	hot side exterior is metallized
NL3026T-03	no metallization

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.

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, 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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