



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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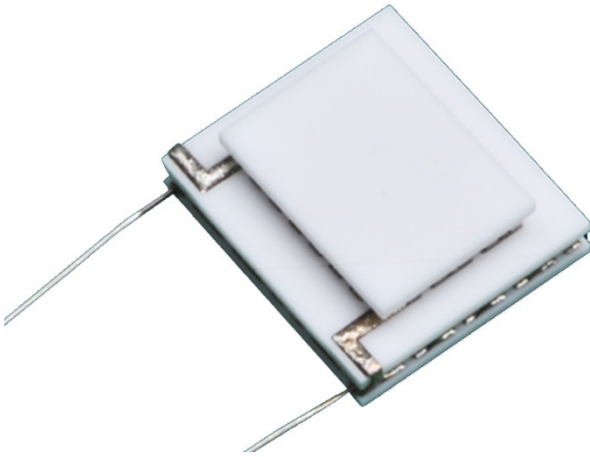
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





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
- 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.

ORDERING OPTIONS

Model Number	Description
NL2012T-01	Both Surfaces are Metallized
NL2012T-02	Hot Side Exterior is Metallized
NL2012T-03	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.

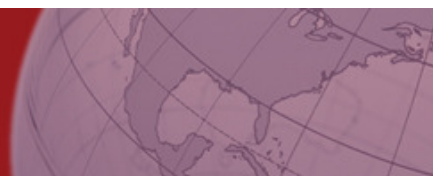
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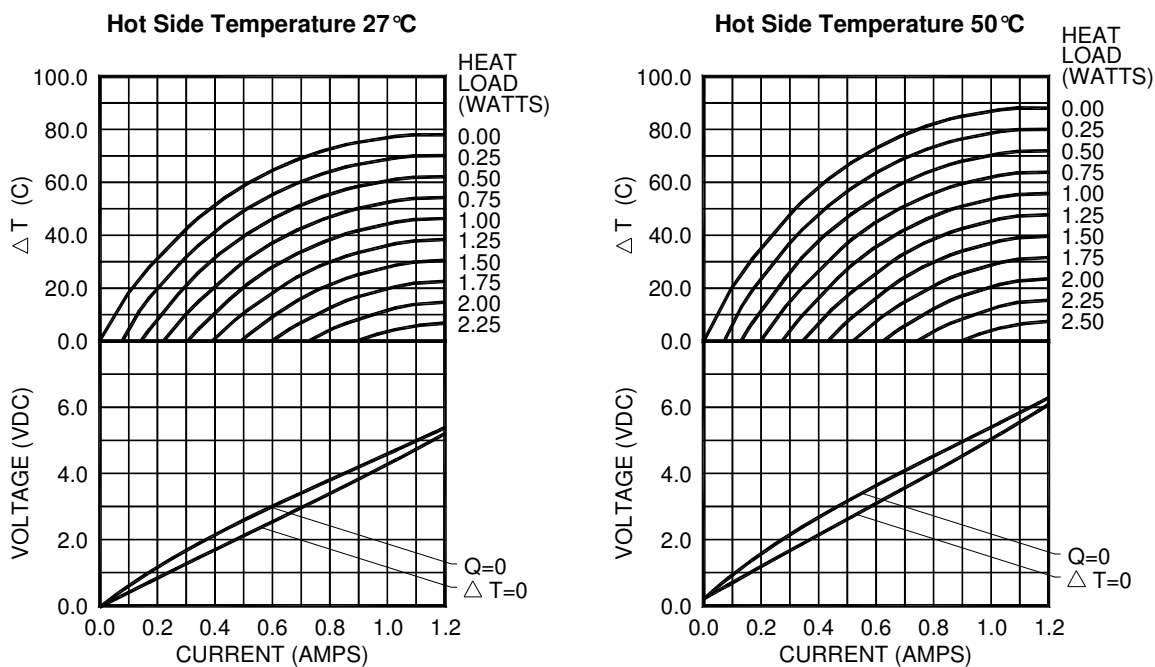
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TYPICAL PERFORMANCE CURVES

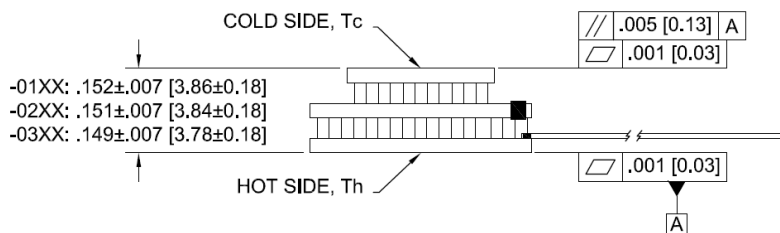
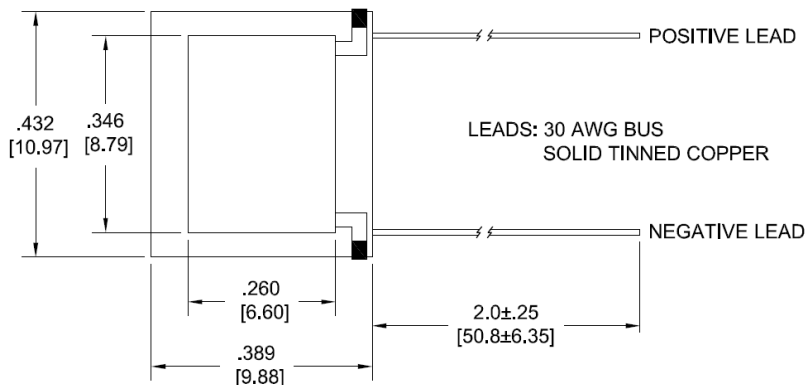
ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



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

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.



CERAMIC MATERIAL : ALUMINA (AC) OR ALUMINA/BERYLLIA (AB) COMBINATION

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.