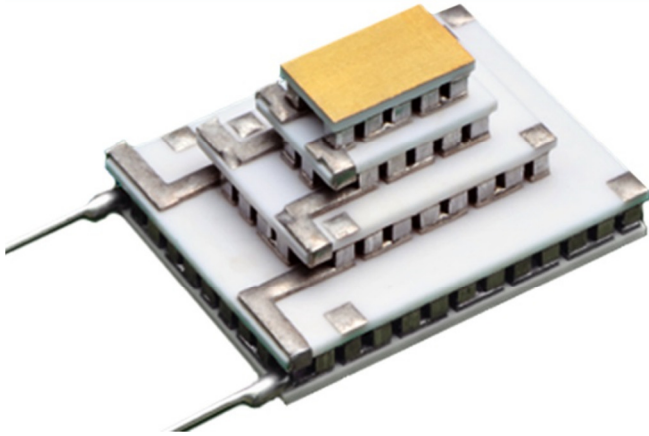




# Technical Data Sheet for NL4040

## Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	120	136
Q <sub>max</sub> (watts):	2.7	3.0
I <sub>max</sub> (amps):	4.0	4.0
V <sub>max</sub> (vdc):	6.8	7.7
AC Resistance (ohms):	1.62	--

### PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 85°C
- Maximum processing temperature of 120°C
- Ceramic Material: Beryllium Oxide.
- Elevated temperature burn-in with test data available.

### ORDERING OPTIONS

Model Number	Description
NL4040-01BC-36	Both Sides Metallized, Elevated Temperature Burn-In with Test Data
NL4040-02BC-36	Base Side Metallized, Elevated Temperature Burn-In with Test Data
NL4040-03BC	No Metallization
NL4040-04BC	Both Sides Metallized
NL4040-05BC	Base Side Metallized

### 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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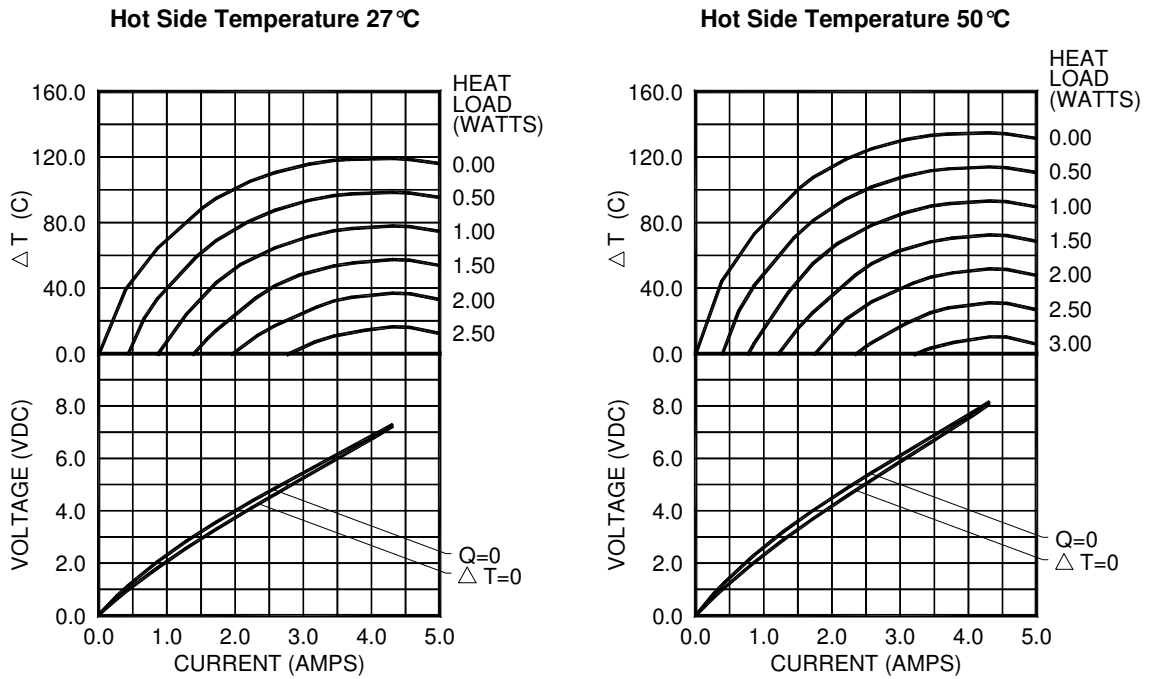
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TYPICAL PERFORMANCE CURVES

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



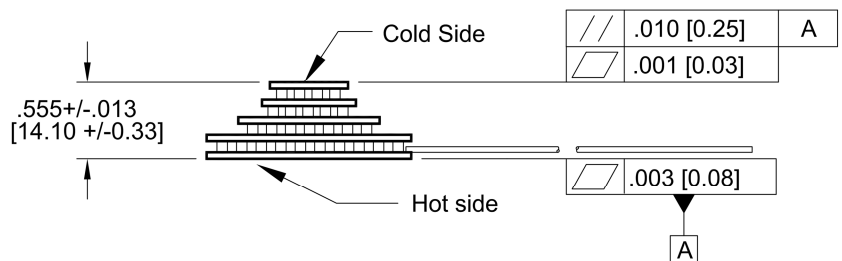
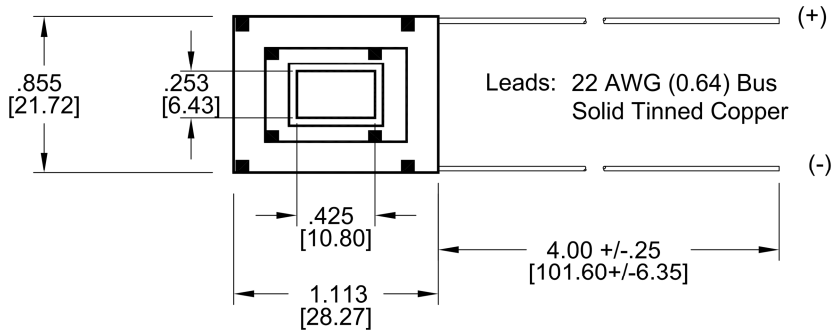
For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.

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.**



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](http://www.marlow.com). Marlow reserves the right to make product changes without notice.