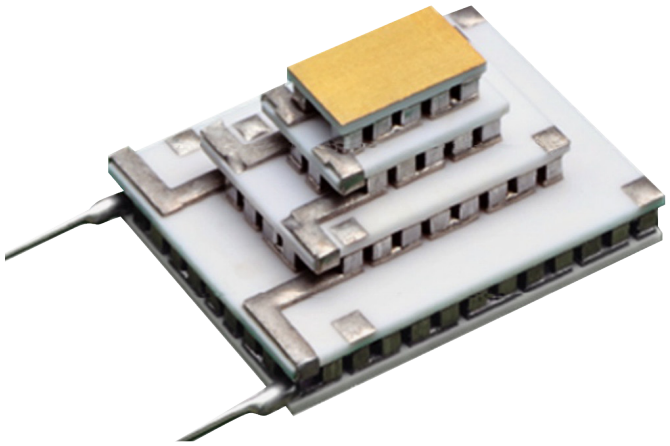
MULTI-STAGE THERMOELECTRIC COOLER NL4040

Multi-Stage Thermoelectric Module



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

COHERENT

Nominal Performance in Nitrogen

Hot Side Temperature (°C)	27	50
Δ Tmax (°C)	120	136
Qmax (watts)	2.7	3.0
Imax (amps)	4.0	4.0
Vmax (vdc)	6.8	7.7
AC Resistance (ohms)	1.62	--

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

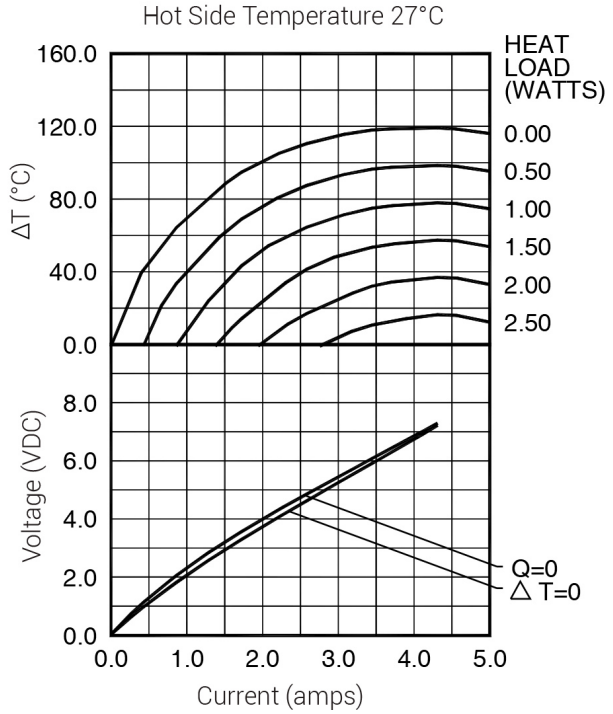
For maximum reliability, storage and operation below 85°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

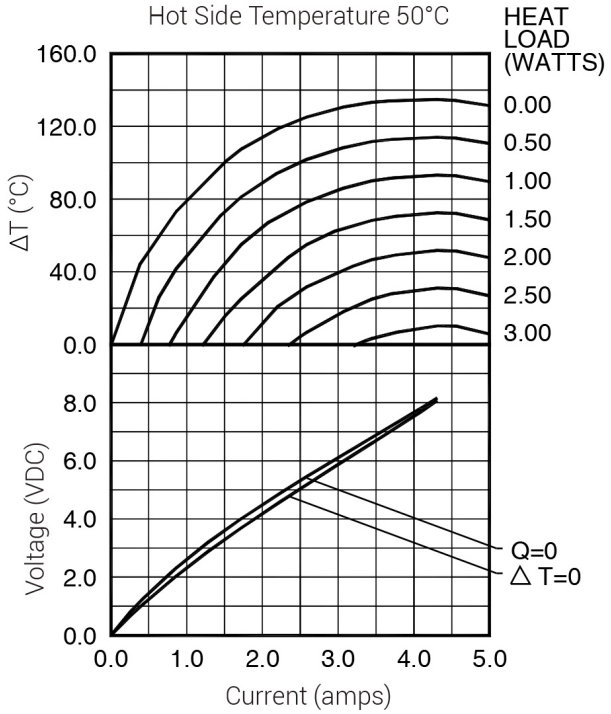
Installation

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

Typical Performance Curves

Environment: One atmosphere dry nitrogen



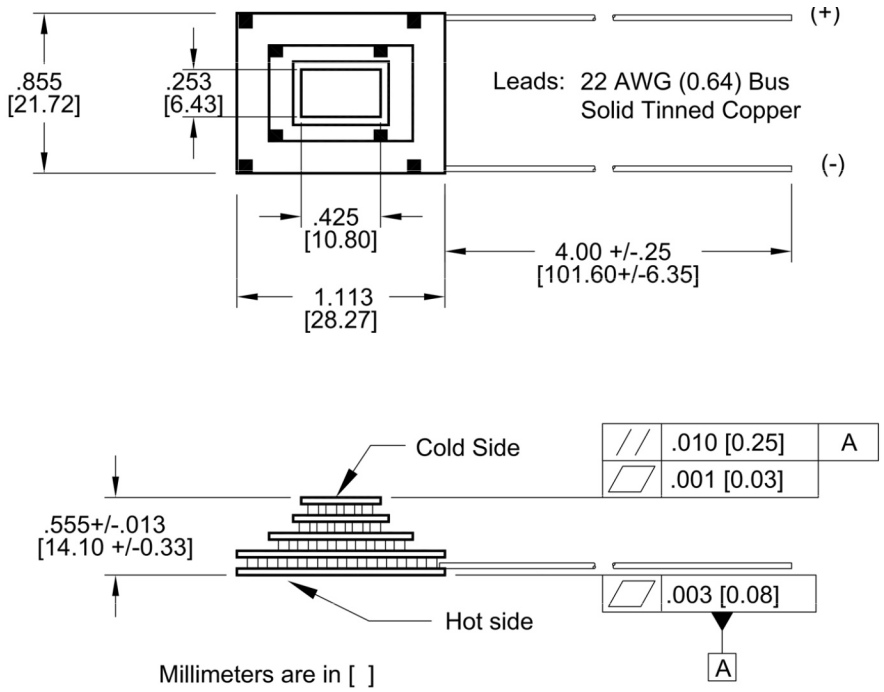


For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, please contact us.

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.



All units are in inches and [ ] are in millimeters unless otherwise stated.

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