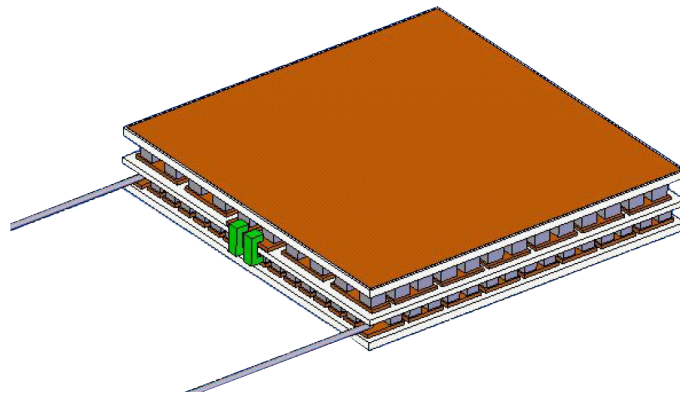


# MULTI-STAGE THERMOELECTRIC COOLER NL2070

## Multi-Stage Thermoelectric Module



## FEATURES

- RoHS EU Compliant
- Rated operating temperature of 85°C
- Maximum processing temperature of 120°C
- Ceramic material: Aluminum Oxide
- Superior nickel diffusion barriers on elements
- High strength for rugged environment
- Pretinned metallized ceramic surface 117°C solder option available
- Ideal for large temperature differentials ( $\Delta T$ ) and large heat pumping applications

# MULTI-STAGE THERMOELECTRIC COOLER NL2070

## Nominal Performance Nitrogen

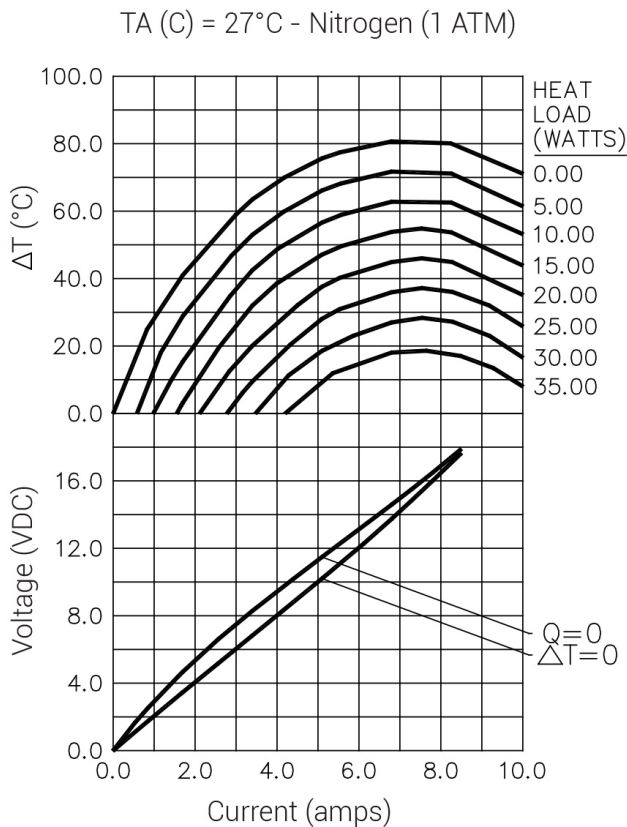
Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C)	81	91
Qmax (watts)	45.0	50.0
I <sub>max</sub> (amps)	7.2	7.2
V <sub>max</sub> (vdc)	15.5	17.2
AC Resistance (ohms)	1.92	--

## Nominal Performance Vacuum

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C)	88	100
Qmax (watts)	46.0	51.0
I <sub>max</sub> (amps)	7.2	7.2
V <sub>max</sub> (vdc)	15.5	17.2
AC Resistance (ohms)	1.92	--

## Typical Performance Curves

Environment: Nitrogen



## Ordering Options

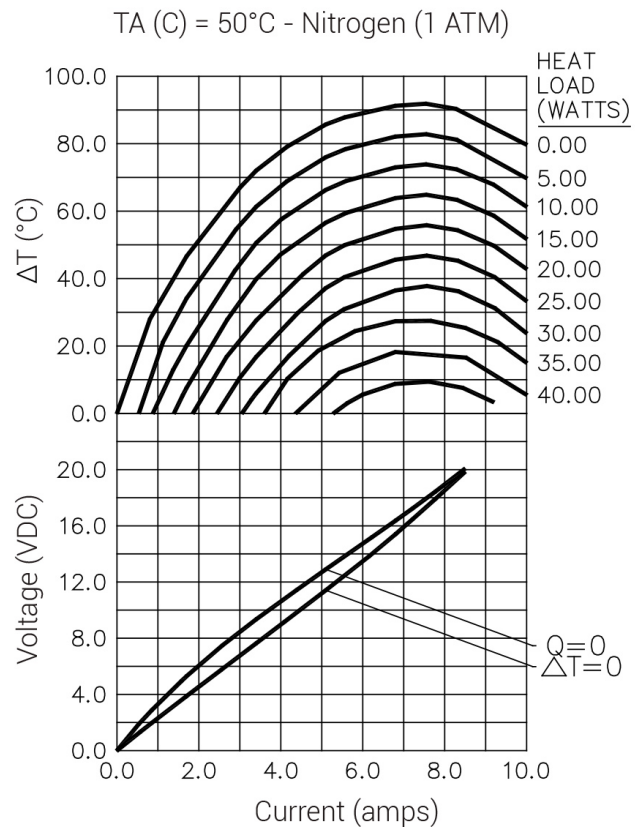
Model Number	Description
NL2070-01AC	TEM, Top and Base metallized exterior
NL2070-02AC	TEM, Base metallized exterior
NL2070-03AC	TEM, no metallized exterior
NL2070-04AC	-02AC with hot side pretinned with 117°C solder

## 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

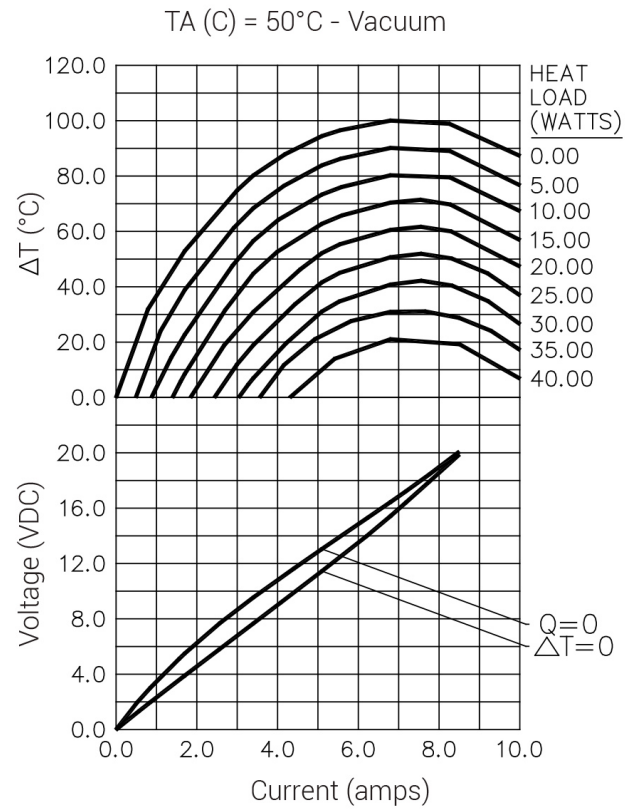
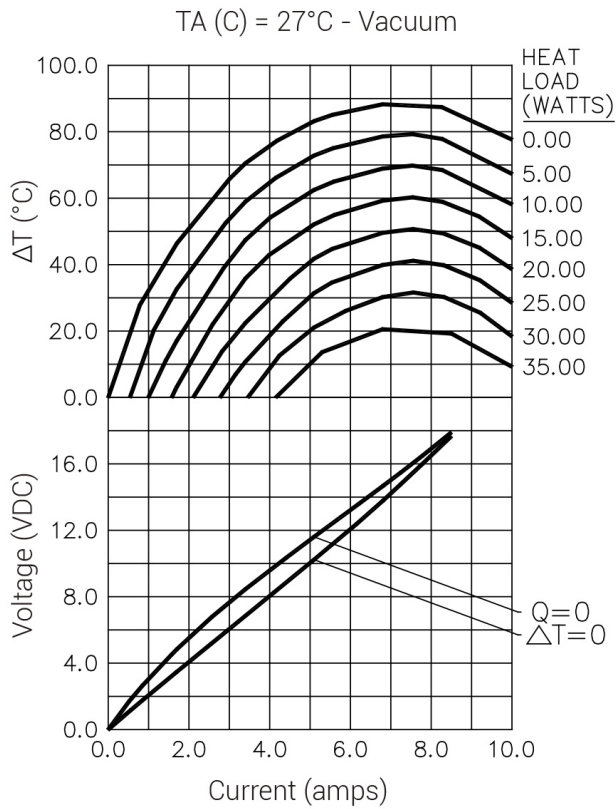
Recommended mounting method: Clamp with uniform pressure to a flat surface with thermal interface material. For additional information, please refer to our TEC Installation Guide.



# MULTI-STAGE THERMOELECTRIC COOLER NL2070

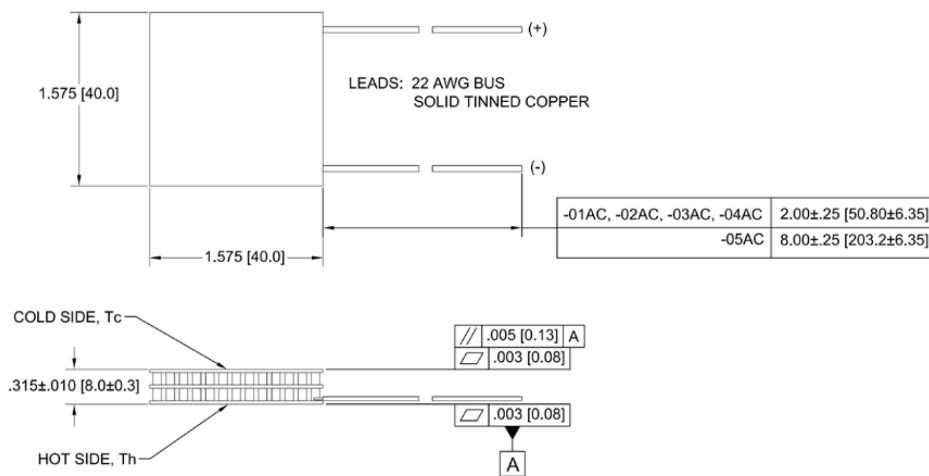
## Typical Performance Curves

Environment: Vacuum



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

## Mechanical Characteristics



Dimensions shown are inches [millimeters].