

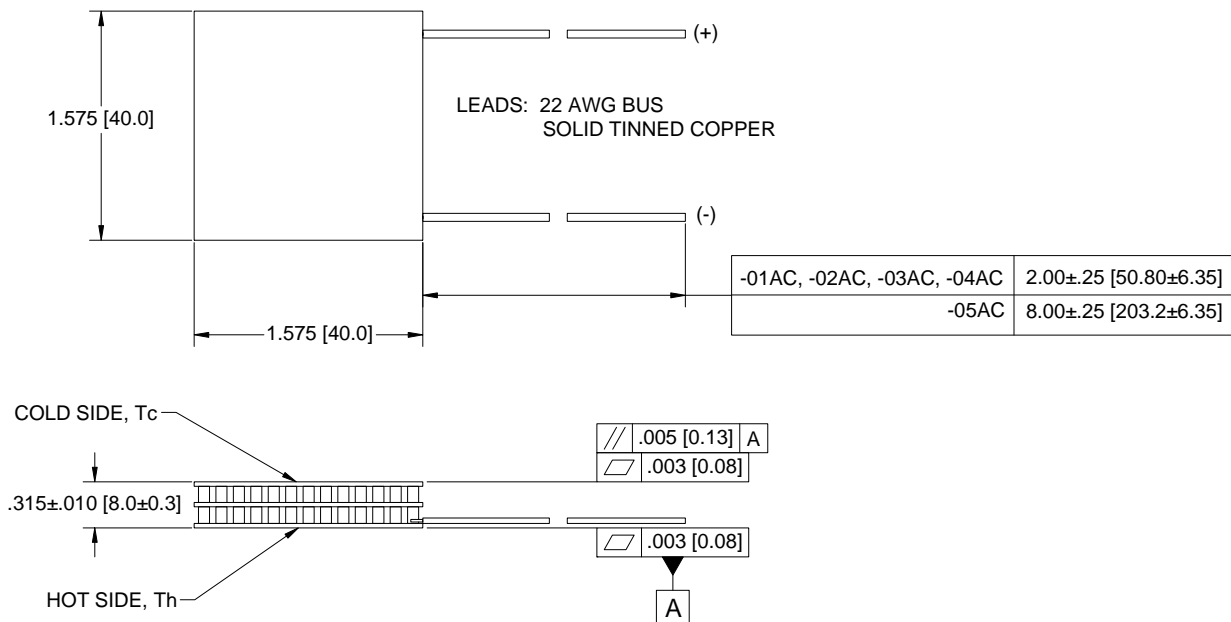
## NL2070

Two-Stage Thermoelectric Cooler  
RoHS EU Compliant

### TYPICAL PERFORMANCE VALUES

Nitrogen		
Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	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	--
Vacuum		
Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	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	--

### MECHANICAL CHARACTERISTICS



Dimensions are shown inches [millimeters].

### ORDERING OPTIONS

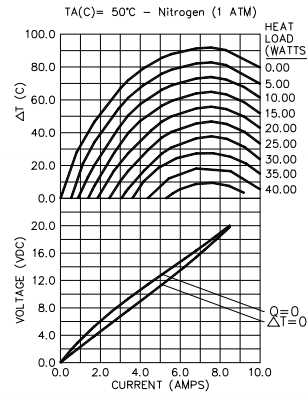
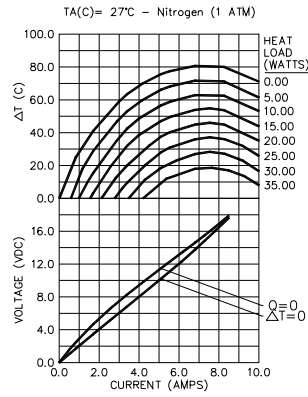
Model Number	Description
NL2070-01AC	TEM, Top and Base Metallized Exterior
NL2070-02AC	TEM, Base Metallized Exterior
NL2070-03AC	TEM, No Metallized Exterior
NL2070-04AC	-02AC with Base Pretinned with 117°C Solder
NL2070-05AC	-01AC with 8 inch Insulated Wires

### PRODUCT FEATURES

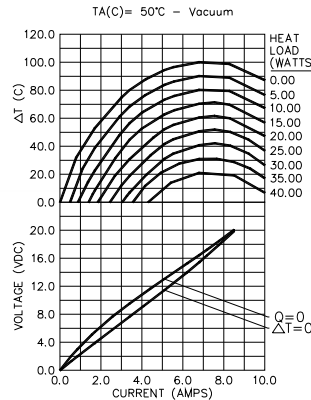
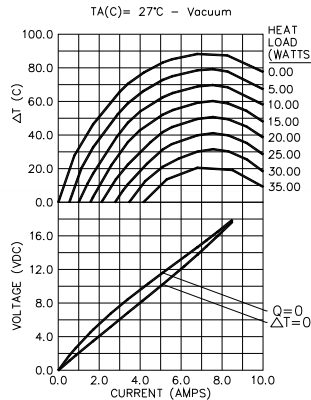
- Ideal for large temperature differentials (ΔT) and large heat pumping applications.
- Rated operating temperature is 130°C.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- Pretinned metallized ceramic surface(s) 117°C solder option available.

ENVIRONMENT:

**Nitrogen**



**Vacuum**



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.

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.

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 visit our website at [www.marlow.com](http://www.marlow.com).

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