



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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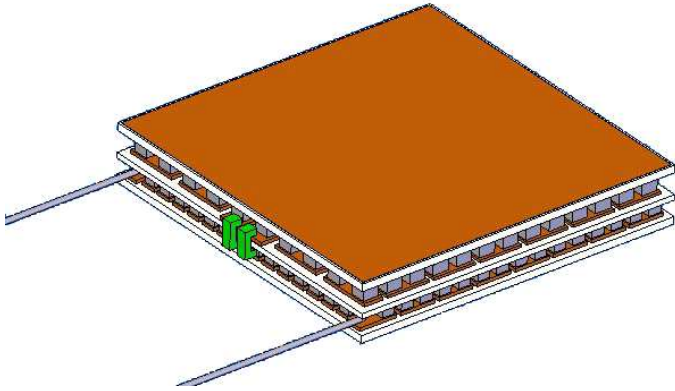
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Technical Data Sheet for NL2076

Multi-Stage Thermoelectric Module



NOMINAL PERFORMANCE

Nitrogen (1 ATM)

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C):	80	90
Q _{max} (watts):	44.6	49.3
I _{max} (amps):	7.2	7.1
V _{max} (vdc):	15.5	17.2
AC Resistance (ohms):	1.93	---

Vacuum (10⁻⁵ TORR)

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C):	87	99
Q _{max} (watts):	45.0	49.9
I _{max} (amps):	7.1	7.1
V _{max} (vdc):	15.5	17.2
AC Resistance (ohms):	1.93	---

PRODUCT FEATURES

- RoHS EU Compliant
- Ideal for large temperature differentials (ΔT) and large heat pumping application.
- Rated operating temperature of 130°C.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- Pre-tinned metallized ceramic surfaces(s) with 117°C solder option available.
- Burn-in test data option available.
- Lapped option available.

ORDERING OPTIONS

Model Number	Description
NL2076-01AC	TEM, Top and Base Metallized Exterior
NL2076-02AC	TEM, Base Metallized Exterior
NL2076-03AC	TEM, No Metallized Exterior
NL2076-04AC	TEM, Base Pre-tinned w/117°C solder
NL2076-05AC	TEM, Top & Base Metallized Exterior, 203mm Insulated Wires
NL2076-06AC	TEM, No Metallized Exterior, 102mm Au over Ni over Cu Wires, Burn-In Test & Data
NL2076-08AC	TEM, No Metallized Exterior, 203mm Insulated Wires
NL2076-09AC	TEM, No Metallized Exterior, Lapped, 203mm Insulated Wires

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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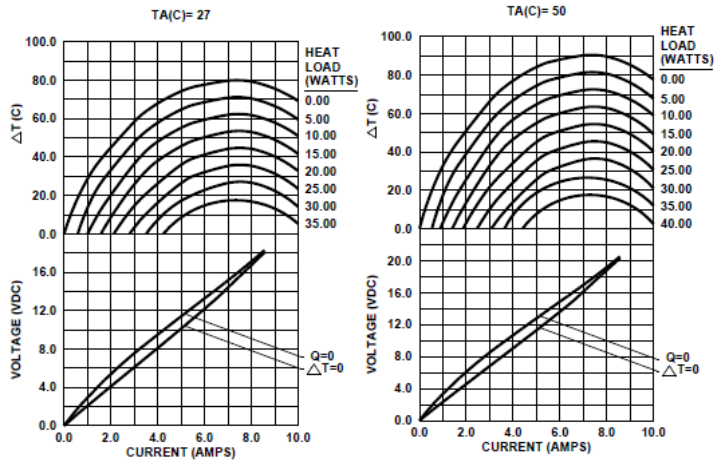
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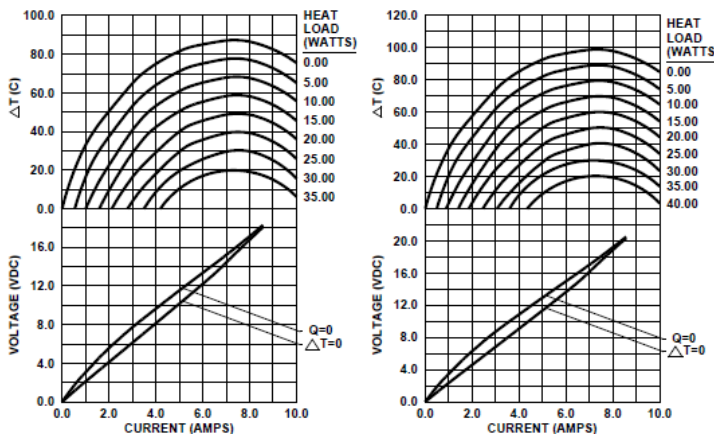
TYPICAL PERFORMANCE CURVES

ENVIRONMENT:

Nitrogen (1 ATM)

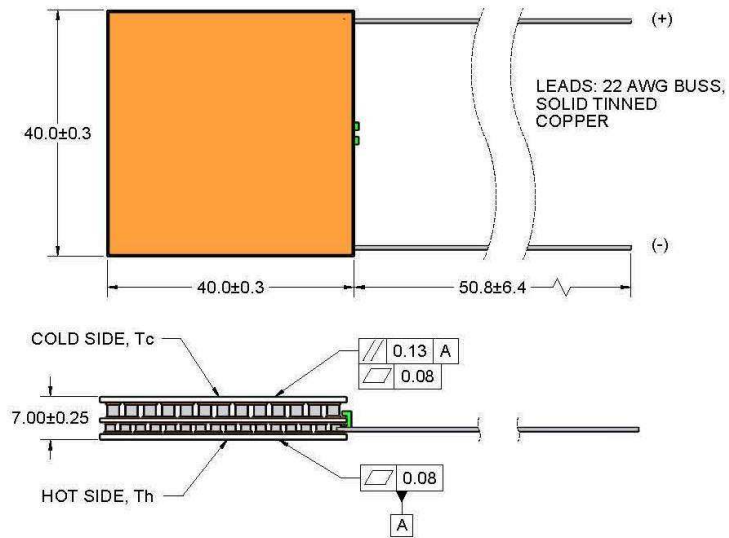


Vacuum (10⁻⁵ TORR)



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

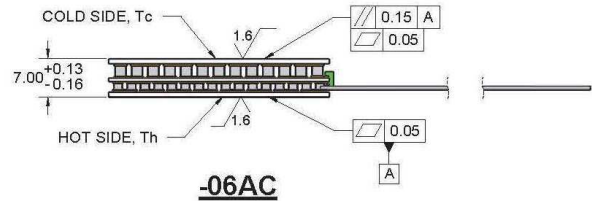
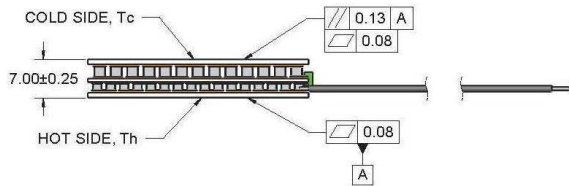
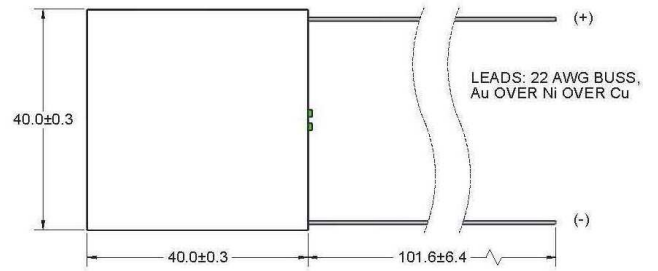
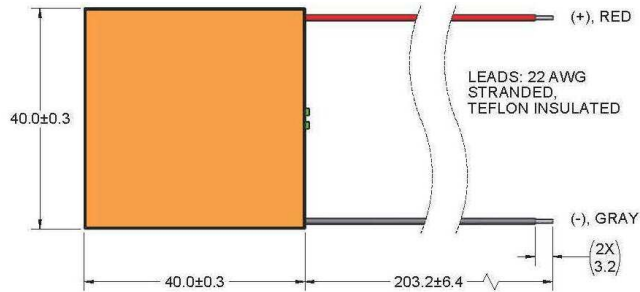


-01AC THRU -04AC

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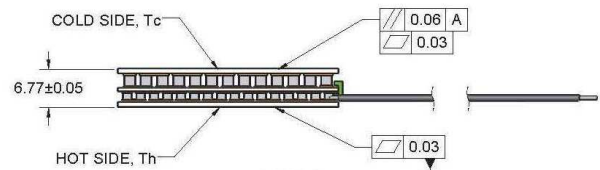
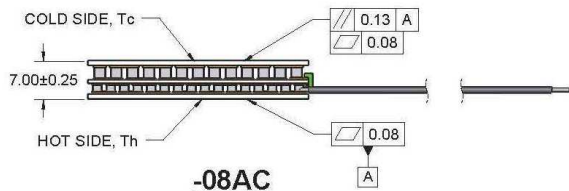
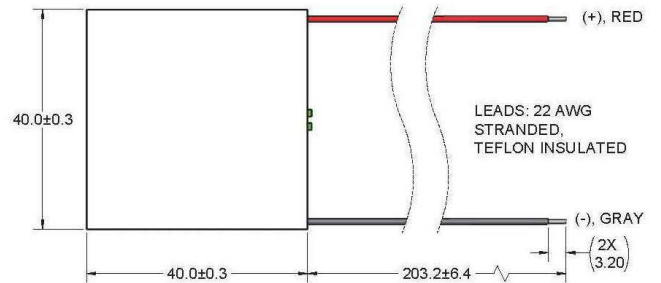
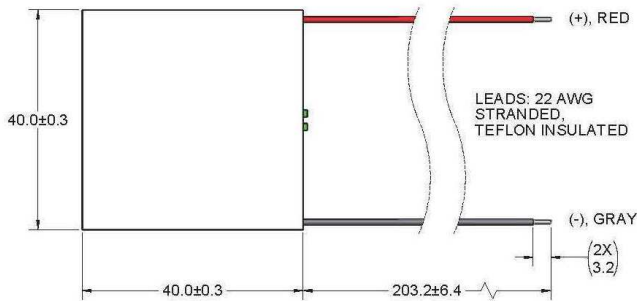


MECHANICAL CHARACTERISTICS



-05AC

-06AC



-08AC

-09AC

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