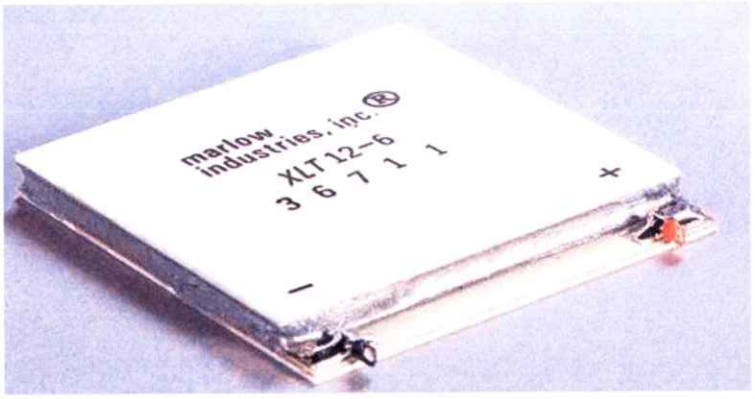
marlow industries inc.®

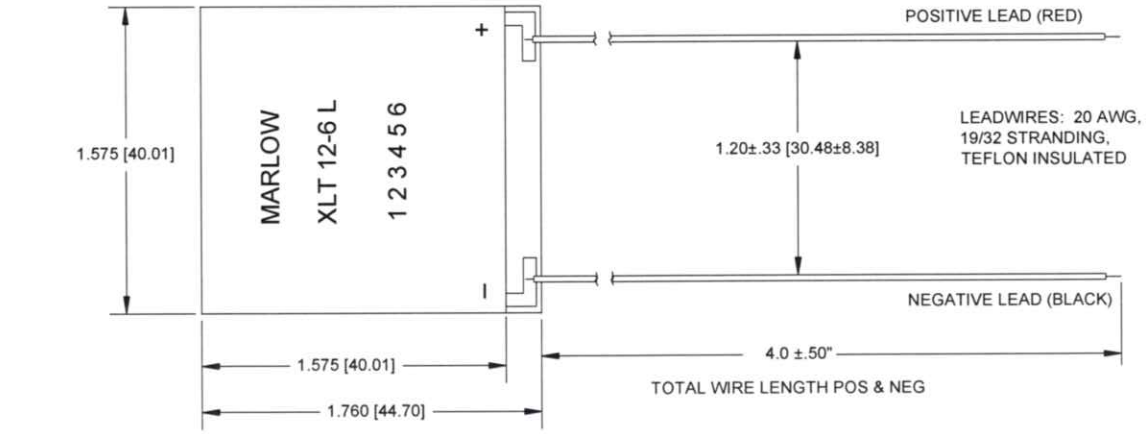
Thermoelectric Cooler — XLT12-6

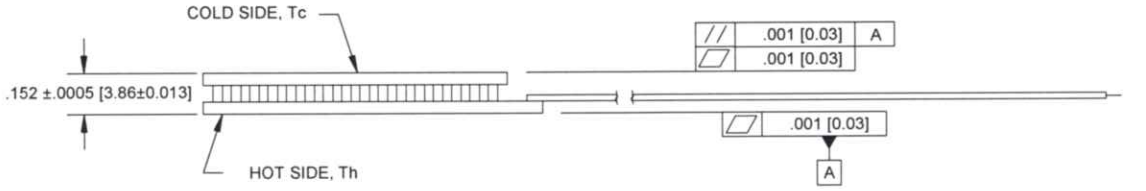
Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	59	67
Qmax (watts):	52	57
Imax (amps):	5.6	5.6
Vmax (vdc):	14.4	16.0
AC Resistance (ohms):	2.2	---



Mechanical Characteristics





Ordering Options

Model Number	Description
XLT12-6-00L	Lapped
XLT12-6-01L	Lapped, Leadwires

Features

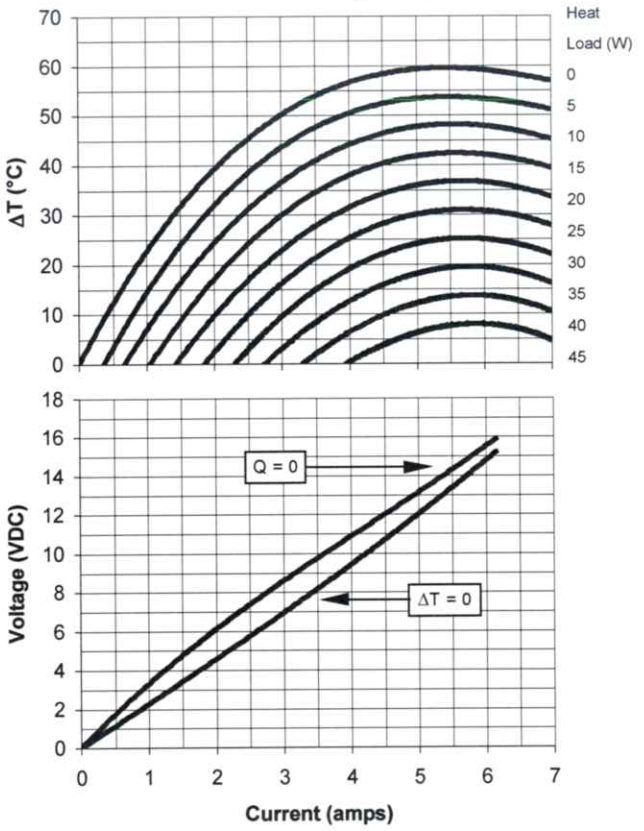
- Specifically designed for thermal cycling applications
- Capable of rapid heating and cooling rates
- Proven High Reliability (Data available upon request)
- Rugged construction
- Porched configuration for enhanced leadwire strength
- Leadwires attached with 183°C solder
- Rated operating temperature of 130°C
- Height tolerance of ± 0.001 in. (± 0.03 mm) allows for multiple module applications
- Modules with matched AC Resistance available (Optional)

Performance Curves

Environment: One atmosphere dry nitrogen

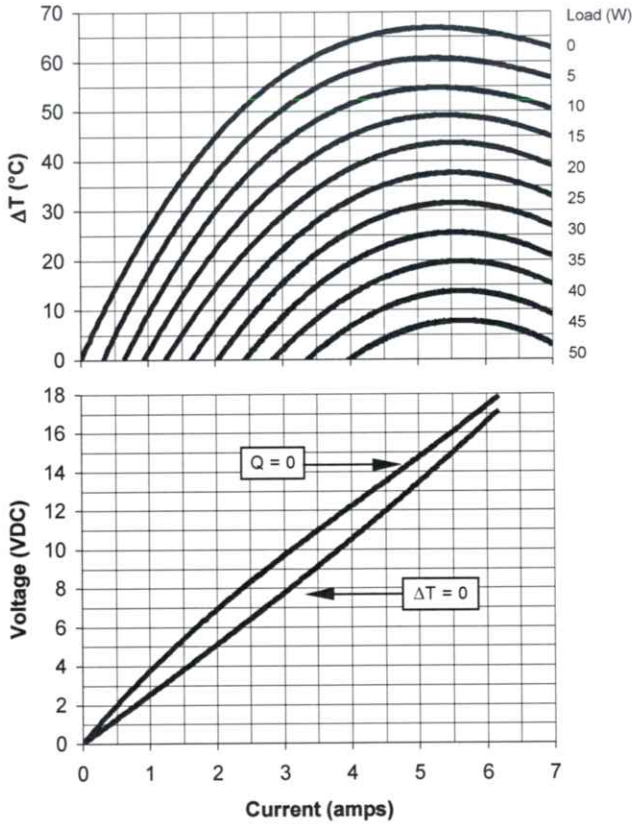
Hot Side Temperature: 27°C

T_A = 27°C - Nitrogen (1 ATM)



Hot Side Temperature 50°C

T_A = 50°C - Nitrogen (1 ATM)



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, consult one of our Applications Engineers.

Installation

XLT coolers are typically mounted under compression using thermal grease or flexible graphite products. Consult Marlow Industries' Thermoelectric Installation Guide for more details. For additional information, please contact one of our application engineers for technical support.

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