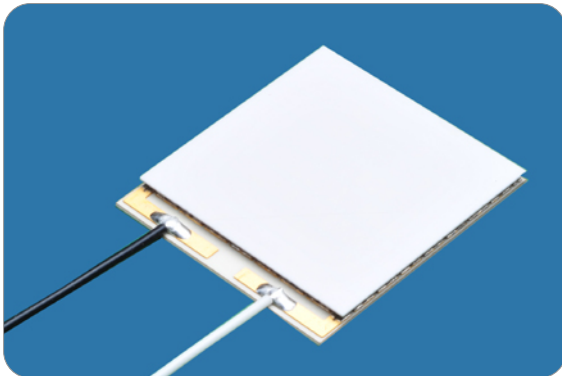




marlow industries, inc.®  
Subsidiary of II-VI INCORPORATED

# TECHNICAL DATA SHEET



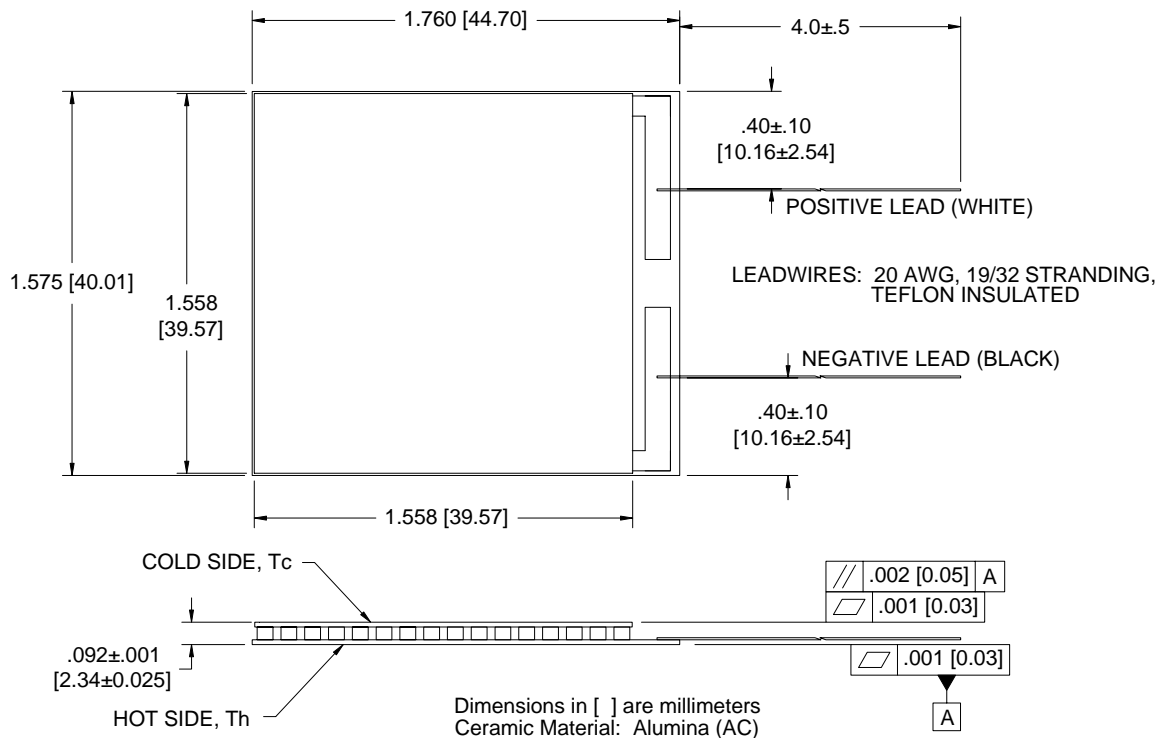
## XLT2418

Single-Stage Thermoelectric Cooler  
RoHS 2002/95/EC Compliant

### PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	56.5	64.0
Qmax (watts):	127	141
Imax (amps):	13.9	13.8
Vmax (vdc):	14.1	15.7
AC Resistance (ohms):	0.83	---

### MECHANICAL CHARACTERISTICS



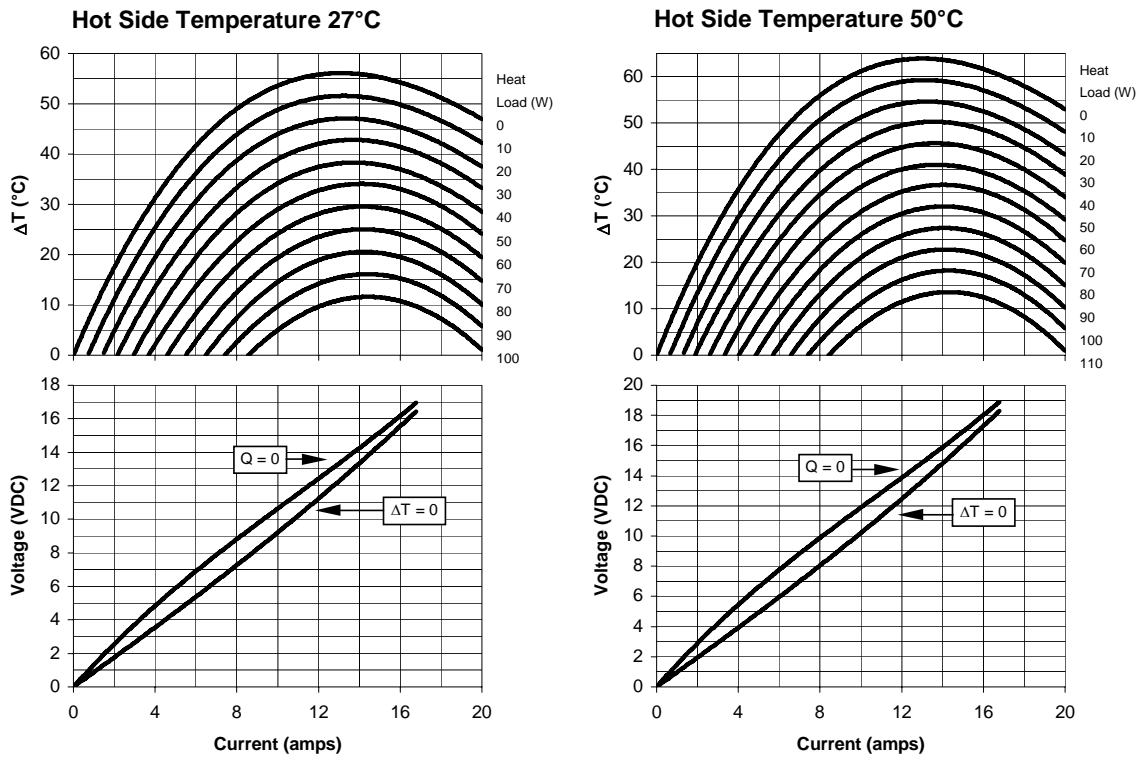
### ORDERING OPTIONS

Model Number	Description
XLT2418-03AC	Leadwires
XLT2418-04AC	No Leadwires
XLT2418-05AC	Leadwires, Sealed
XLT2418-06AC	Leadwires, Diced
XLT2418-07AC	No Leadwires, Sealed

### AVAILABLE MODIFICATIONS

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.  
Rated operating temperature of 130°C.  
Height tolerance of ± 0.001 in. (± 0.025 mm) allows for multiple module applications.

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



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.

CONTACT US:

For customer support or general questions please contact a local office below or consult our website for distributor information.

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