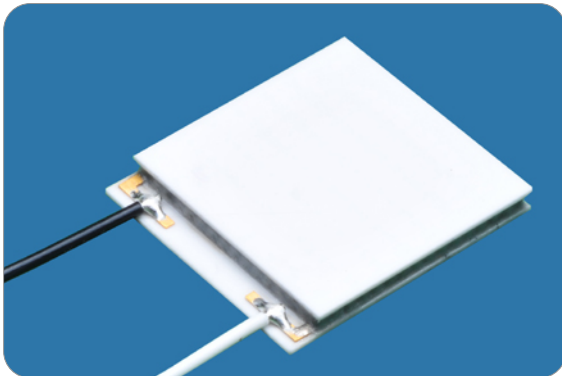




marlow industries, inc.®  
Subsidiary of II-VI INCORPORATED

# TECHNICAL DATA SHEET



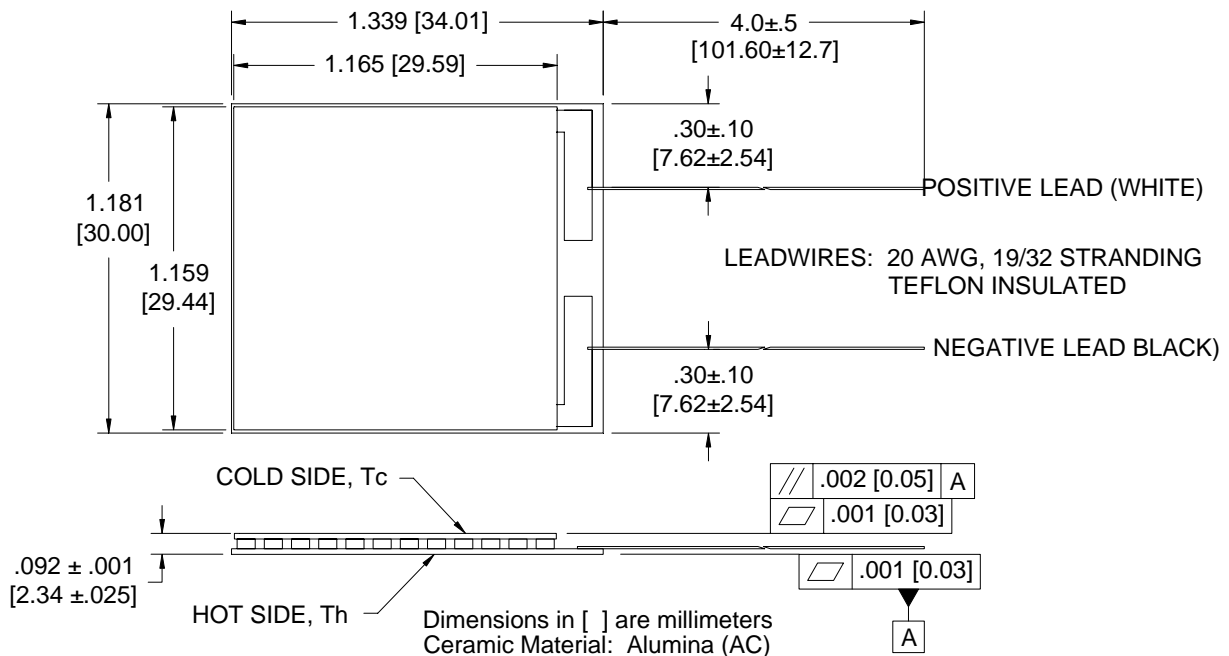
## XLT2419

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):                    | 72   | 79   |
| Imax (amps):                     | 13.9 | 13.8 |
| Vmax (vdc):                      | 8.0  | 8.8  |
| AC Resistance (ohms):            | 0.47 | ---  |

### MECHANICAL CHARACTERISTICS



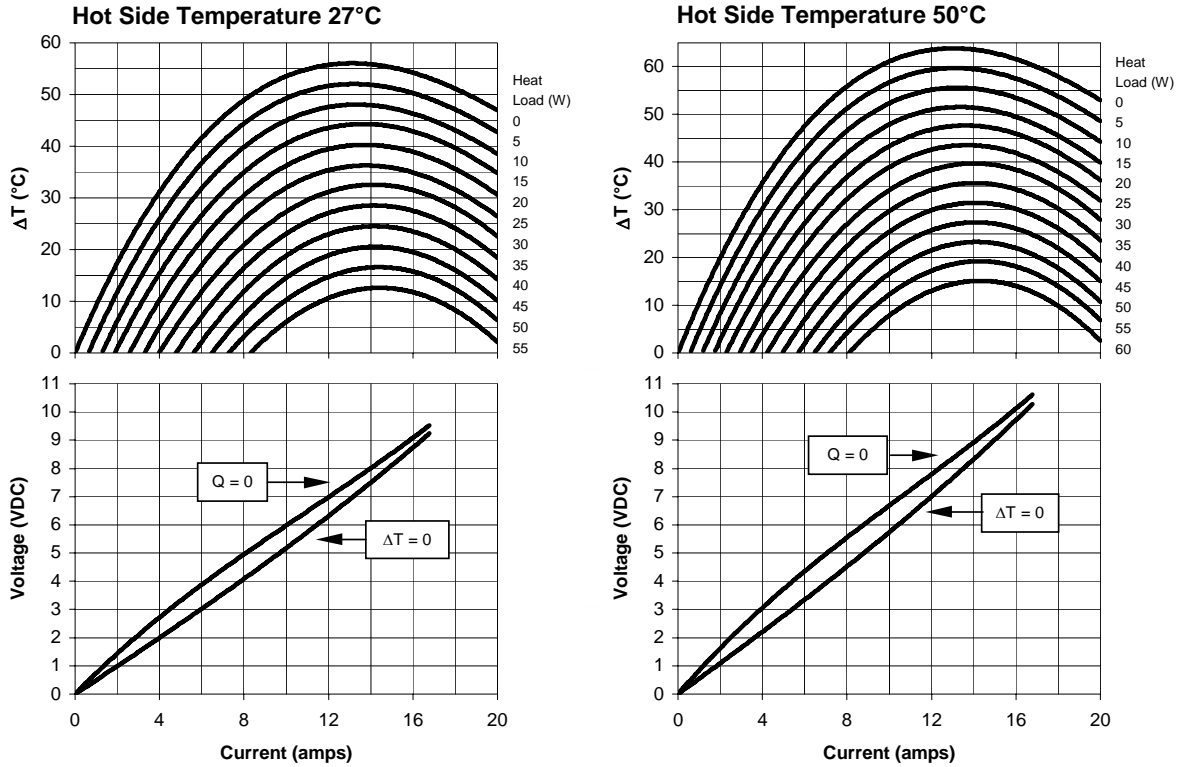
### ORDERING OPTIONS

| Model Number | Description             |
|--------------|-------------------------|
| XLT2419-03AC | Leadwires               |
| XLT2419-04AC | No Leadwires            |
| XLT2419-05AC | Leadwires, Diced        |
| XLT2419-07AC | Leadwires, Sealed       |
| XLT2419-08AC | Leadwires 8 inches long |

### 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 150°C.  
 Height tolerance of ± .001 in. (± .025 mm) allows for multiple module applications.  
 RTV sealing available.

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.

Marlow Industries, Inc.  
 10451 Vista Park Road  
 Dallas Texas 75238-1645  
 214-340-4900 (tel)  
 214-341-5212 (fax)  
 www.marlow.com

Marlow Industries Europe GmbH  
 Im Tiefen See 58  
 64293 Darmstadt - Germany  
 Tel.: +49 (0) 6151 8806 -0  
 Fax.: +49 (0) 6151 8806 9455

II-VI Japan Inc.  
 WBG Marive East 17F  
 2-6 Nakase, Mihama-ku  
 Chiba-Shi, Chiba 261-7117  
 Japan  
 81 43 297 2693 (tel)  
 81 43 297 3003 (fax)  
 center@ii-vi.co.jp  
 www.ii-vi.co.jp

II-VI Singapore Pte., Ltd.  
 Blk. 5012, Techplace II  
 #04-07 & 05-07/12, Ang Mo Kio Ave. 5  
 Singapore 569876  
 (65) 6481 8215 (tel)  
 (65) 6481 8702 (fax)  
 info@ii-vi.com.sg  
 www.ii-vi.com.sg

Marlow Industries China, II-VI  
 Technologies Beijing  
 A subsidiary of II-VI Incorporated  
 Rm 202, 1# Lize 2nd Middle Road  
 Wangjing, Chaoyang District  
 Beijing 100102 China  
 010-64398226 ext 105 (tel)  
 010-64399315 (fax)  
 info@iivibj.com