

XLT2416

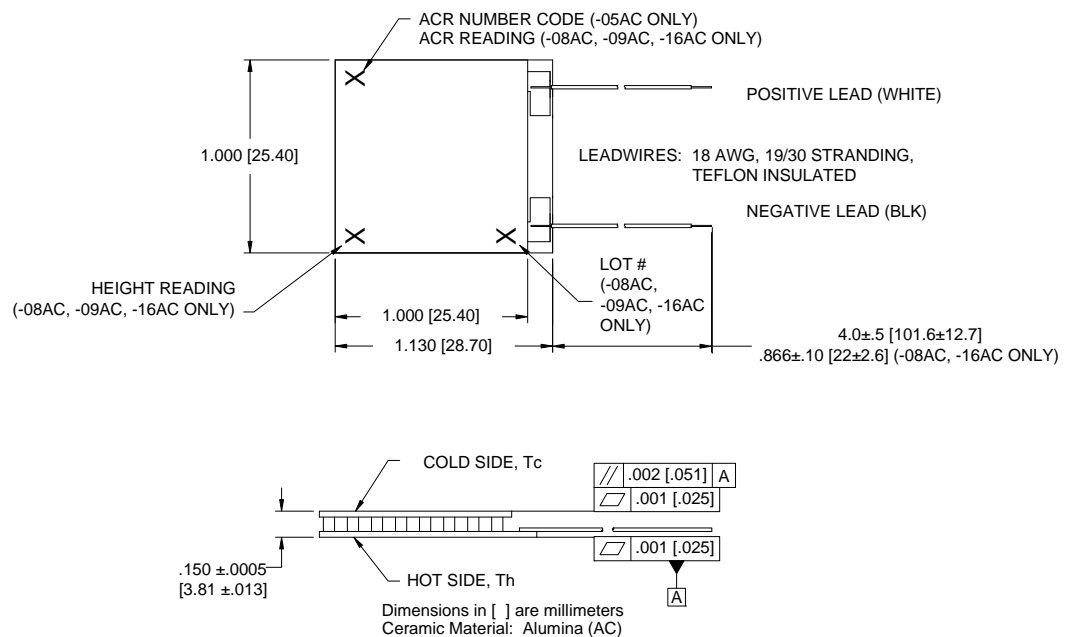
Single-Stage Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	56.0	63.5
Qmax (watts):	33.9	37.3
I _{max} (amps):	14.7	14.6
V _{max} (vdc):	3.6	4.0
AC Resistance (ohms):	0.20	---

MECHANICAL CHARACTERISTICS

ACR Number Code	ACR Range (ohms)	
2	0.170	0.172
3	0.172	0.175
4	0.175	0.178
5	0.178	0.181
6	0.181	0.184
7	0.184	0.187
8	0.187	0.190
9	0.190	0.193
10	0.193	0.196
11	0.196	0.199
12	0.199	0.202
13	0.202	0.205
14	0.205	0.208
15	0.208	0.211
16	0.211	0.214
17	0.214	0.218



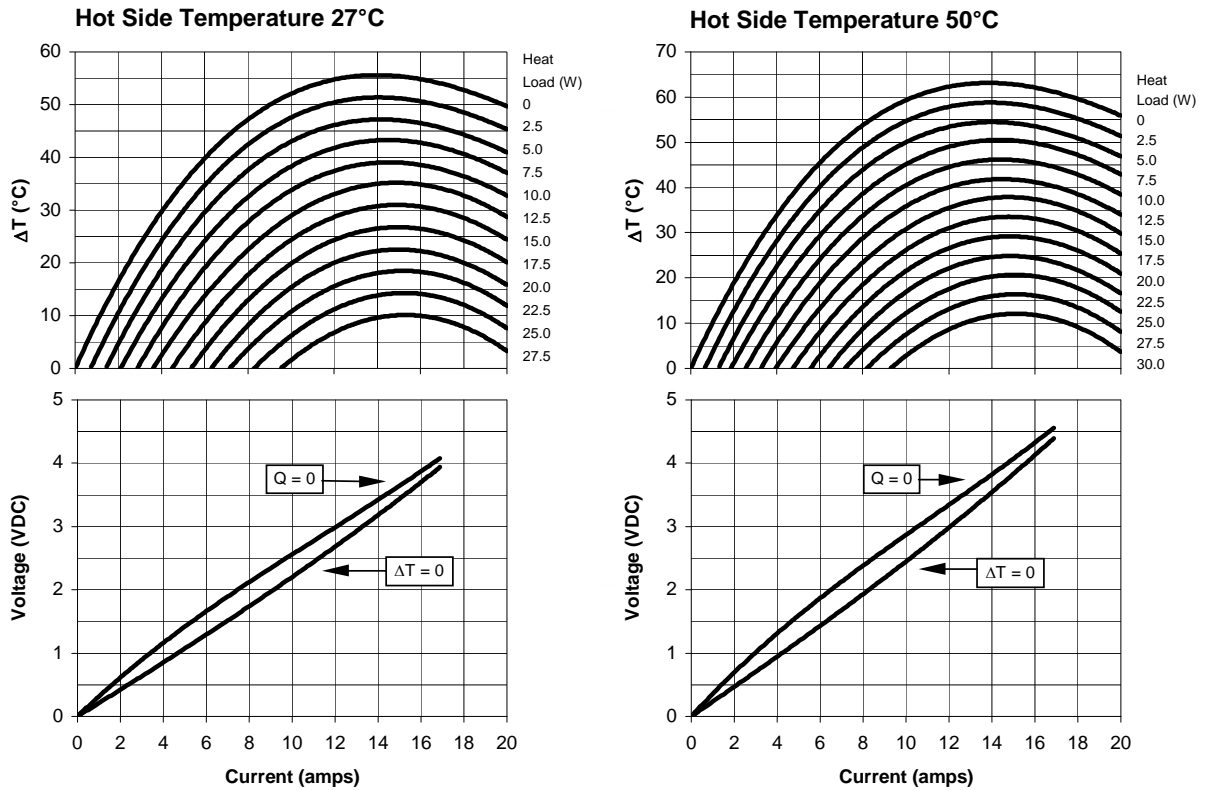
ORDERING OPTIONS

Model Number	Description
XLT2416-03AC	Lapped, Leadwires
XLT2416-04AC	Lapped, Leadwires, Sealed
XLT2416-05AC	Lapped, Leadwires, ACR Number Coded
XLT2416-06AC	Lapped, Leadwires, ACR Number Coded
XLT2416-08AC	Lapped, Leadwires, ACR & Height Marked
XLT2416-09AC	Lapped, Leadwires, ACR & Height Marked
XLT2416-16AC	Lapped, Leadwires, ACR Match, Height Match

AVAILABLE MODIFICATIONS

- Rated operating temperature of 125°C.
- Designed for temperature cycling applications.
- Capable of rapid heating and cooling rates.
- Porch configuration for high strength leadwire connection.
- RTV sealing option available.
- Lapped option available for multiple module applications.
- Set of modules ACR matched available.
- ACR matched set using number code available.

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



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 125°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.

Marlow Industries, Inc.
 10451 Vista Park Road
 Dallas Texas 75238-1645
 214-340-4900 (tel)
 214-341-5212 (fax)
 877-627-5691 (tech support)
www.marlow.com

Marlow Industries Europe GmbH
 Brunnenweg 19-21
 64331 Weiterstadt
 Germany
 Tel.: +49 (0) 6150 5439 - 403
 Fax: +49 (0) 6150 5439 - 400
 info@marlow-europe.eu

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