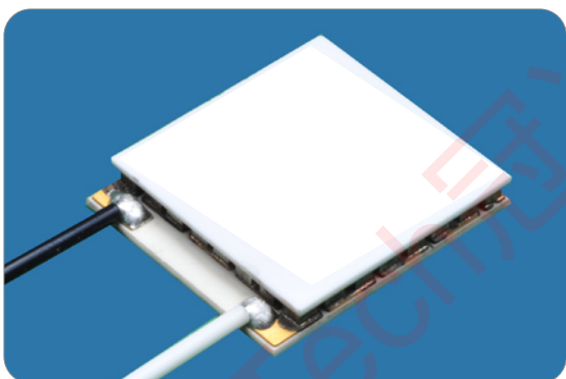




marlow industries, inc.®
Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



XLT2416

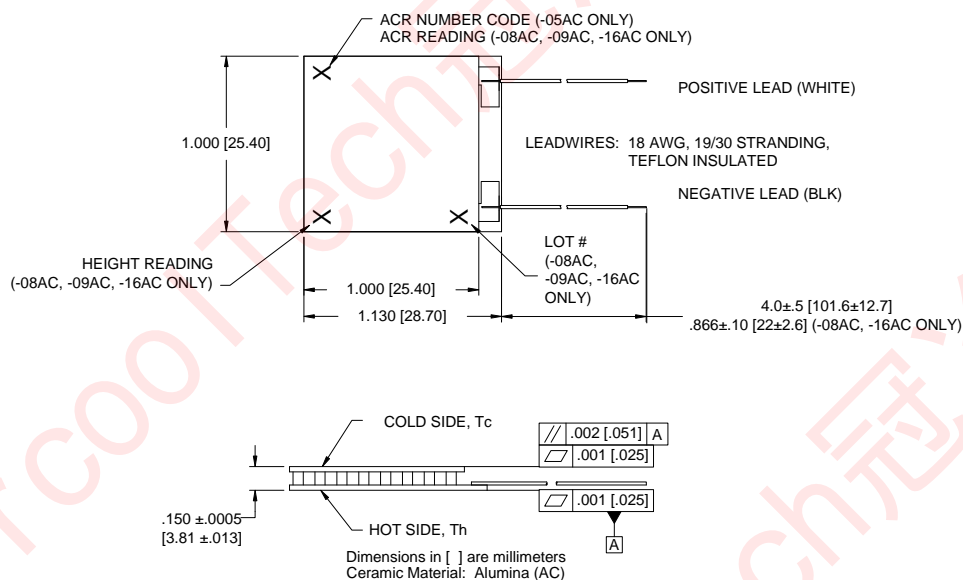
Single-Stage Thermoelectric Cooler
RoHS EU Compliant

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
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



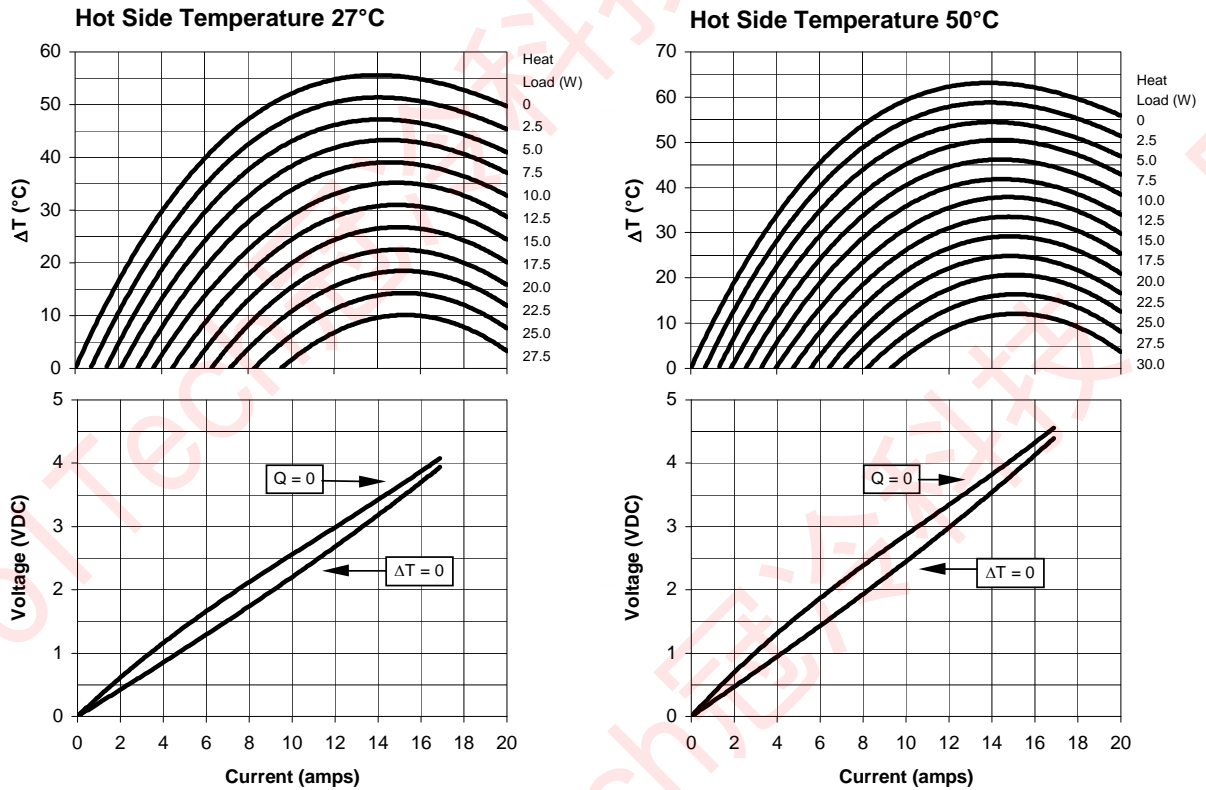
ORDERING OPTIONS

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

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 ± 0.0005 in. (± .013 mm) allows for multiple module applications.
Modules with number coded AC resistance 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.

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