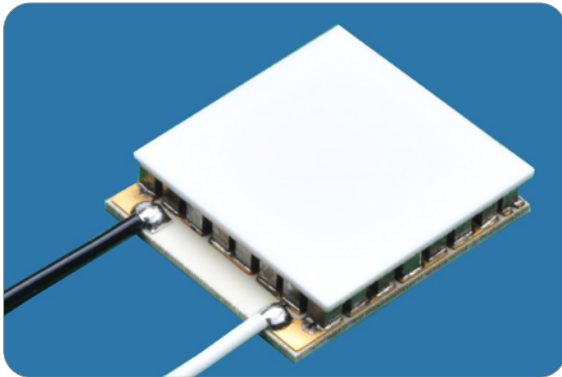




marlow industries, inc.®  
Subsidiary of II-VI INCORPORATED

# TECHNICAL DATA SHEET



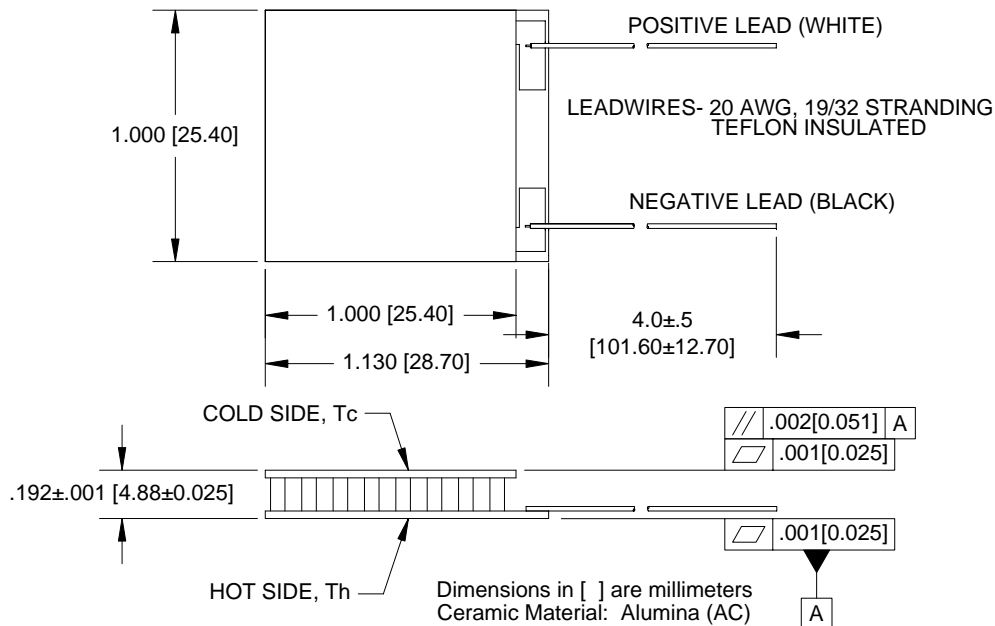
## XLT2421

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> ):	61	69
Qmax (watts):	21	23
Imax (amps):	8.9	8.8
Vmax (vdc):	3.7	4.1
AC Resistance (ohms):	0.35	---

### MECHANICAL CHARACTERISTICS



### ORDERING OPTIONS

- Coolers are marked with color coded pencil dots, indicating bin ranges of ACR test results. See Binning Chart. Coolers are grouped by color and used in applications requiring increased uniformity.
- ACR value is written on each cooler in pencil, based on ACR test results.

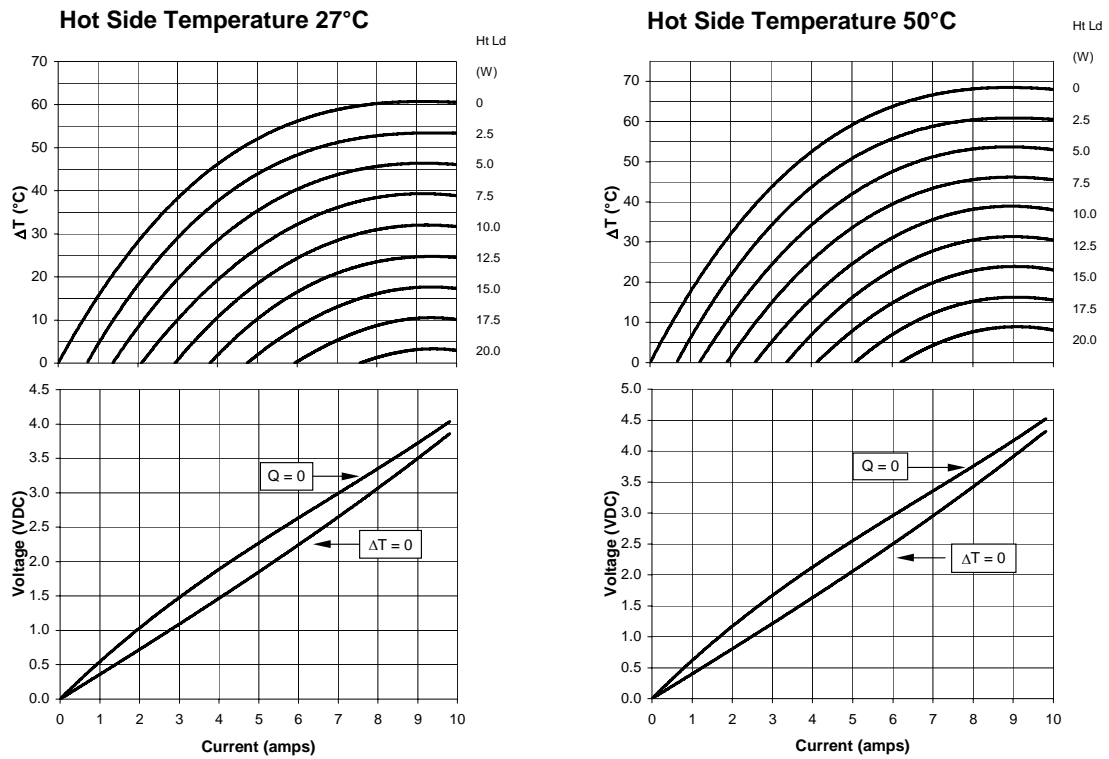
Model No.	Description		
	Leadwires	Bin Color Code <sup>①</sup>	Write ACR <sup>②</sup>
XLT2421-03AC	X		
XLT2421-05AC	X	X	X
XLT2421-06AC			
XLT2421-07AC		X	X

BINNING CHART		
ZONE	COLOR	ACR
A	Blue	.332 - .336
B	Green	.336 - .340
C	Purple	.340 - .344
D	Brown	.344 - .348
E	Black	.348 - .352
F	Orange	.352 - .356

### 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. Modules with matched 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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