



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

TECHNICAL DATA SHEET



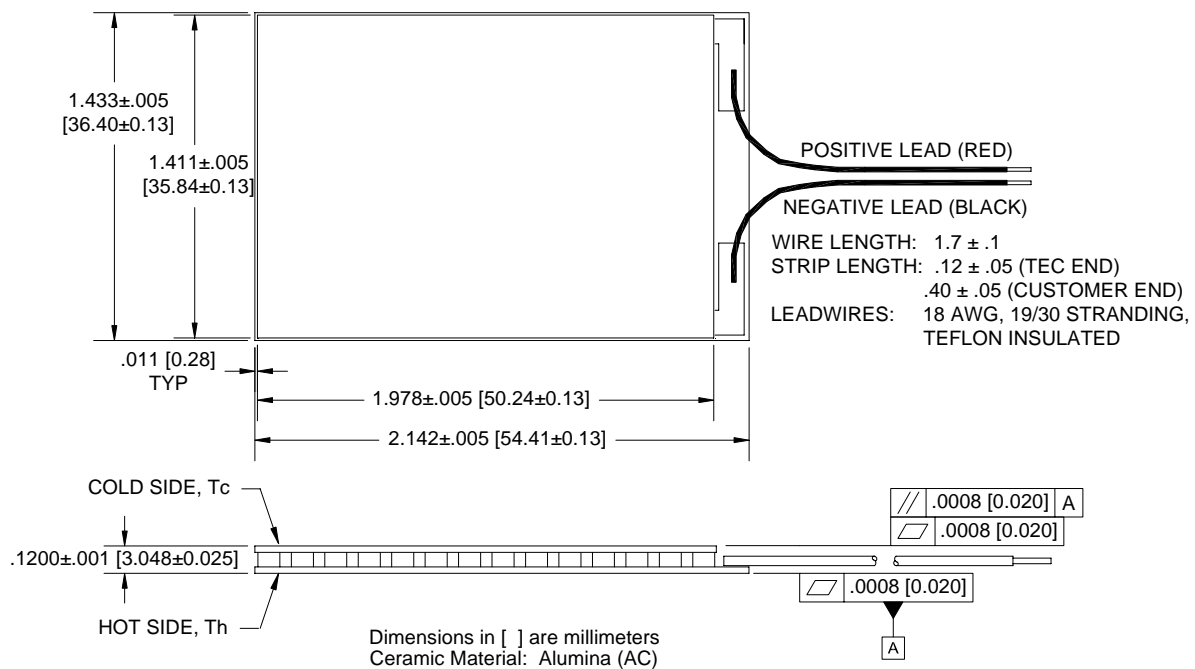
XLT2389

Single-Stage Thermoelectric Cooler

PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	58	66
Qmax (watts):	95	106
Imax (amps):	19.0	18.8
Vmax (vdc):	7.7	8.5
AC Resistance (ohms):	0.34	---

MECHANICAL CHARACTERISTICS



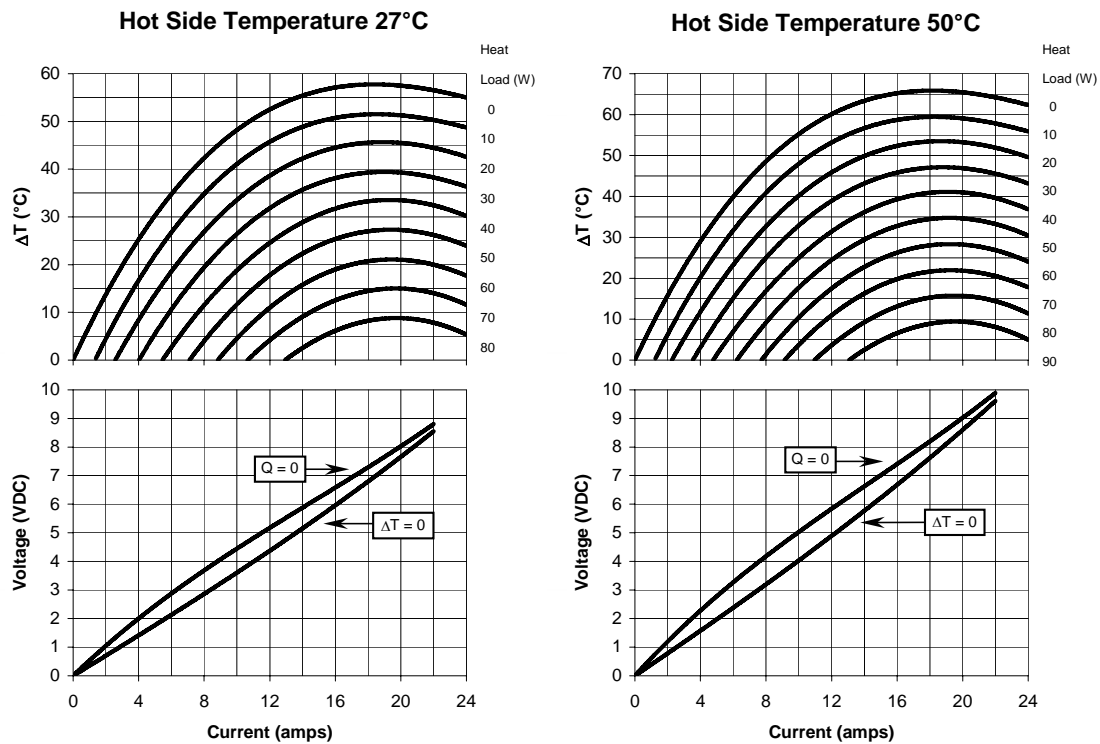
ORDERING OPTIONS

Model Number	Description
XLT2389-31AC	Undiced, one cooler
XLT2389-34AC	Undiced, ACR matched set, four
XLT2389-38AC	Undiced, ACR matched set, eight
XLT2389-41AC	Diced, one cooler
XLT2389-44AC	Diced, ACR matched set, four
XLT2389-48AC	Diced, ACR matched set, eight
XLT2389-71AC	Undiced, One cooler, no leadwires
XLT2389-78AC	Undiced, ACR matched set, eight, no leadwires
XLT2389-81AC	Diced, One cooler, no leadwires
XLT2389-83AC	Diced, ACR matched set, three, no leadwires
XLT2389-88AC	Diced, ACR matched set, eight, no leadwires

AVAILABLE MODIFICATIONS

ACR Matched in sets of four and eight.
 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.
 Leadwires attached with 183°C solder.
 Rated operating temperature of 130°C.
 Height tolerance of ± 0.001 in. (± .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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