



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Technical Data Sheet for XLT2423

Single-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C):	58	66
Q _{max} (watts):	95	106
I _{max} (amps):	19.0	18.8
V _{max} (vdc):	7.7	8.5
AC Resistance (ohms):	0.34	---

PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 125°C.
- Ceramic Material: Aluminum Oxide
- Designed for temperature cycling applications.
- Capable of rapid heating and cooling rates.
- Porch configuration for high strength leadwire connection.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- RTV sealing option available.
- Lapped for multiple module applications.
- Diced option for further mechanical stress relief.
- Set of modules ACR matched available.

ORDERING OPTIONS

Model Number	Description
XLT2423-31AC	Undiced
XLT2423-34AC	Undiced, ACR matched set of 4
XLT2423-38AC	Undiced, ACR matched set of 8
XLT2423-41AC	Diced
XLT2423-42AC	Diced, ARC matched set of 2
XLT2423-44AC	Diced, ACR matched set of 4
XLT2423-48AC	Diced, ACR matched set of 8
XLT2423-51AC	Undiced, 10 inches long leadwires
XLT2423-61AC	Undiced, plastic tray packaging
XLT2423-71AC	Undiced, no leadwires
XLT2423-78AC	Undiced, ACR matched set of 8, no leadwires
XLT2423-81AC	Diced, no leadwires
XLT2423-88AC	Diced, ACR matched set of 8, no leadwires
XLT2423-98AC	Diced, ACR matched set of 8, 2.12 inches long leadwires

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.

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.

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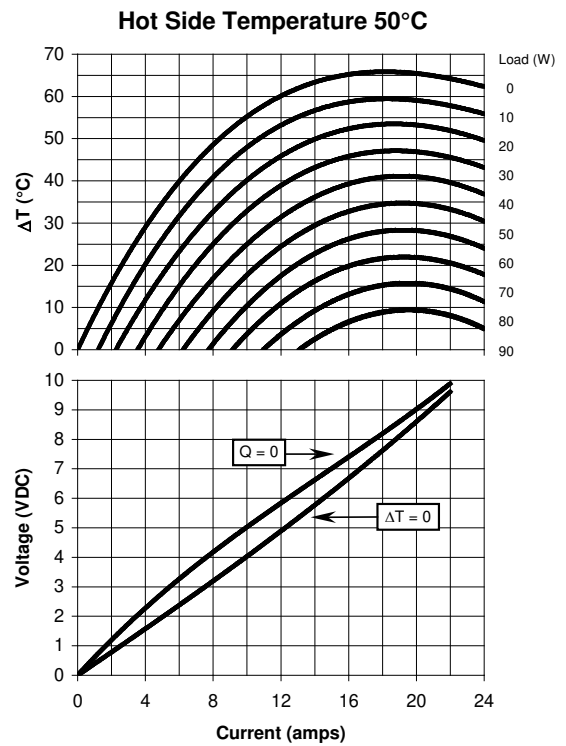
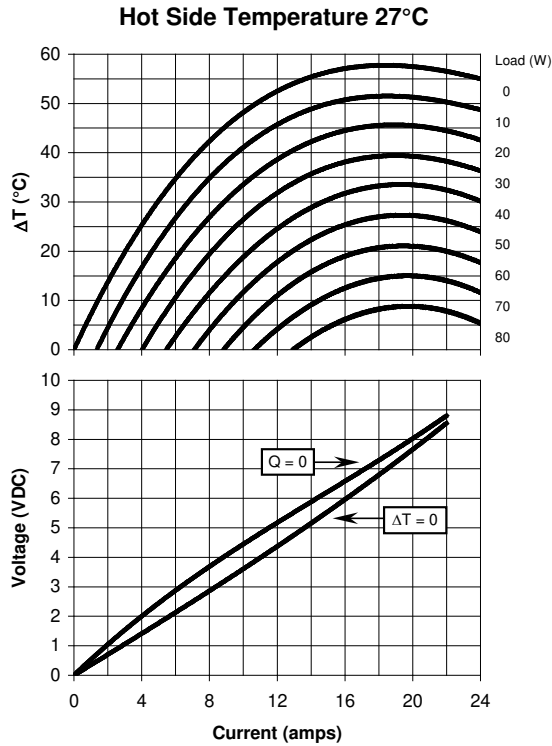
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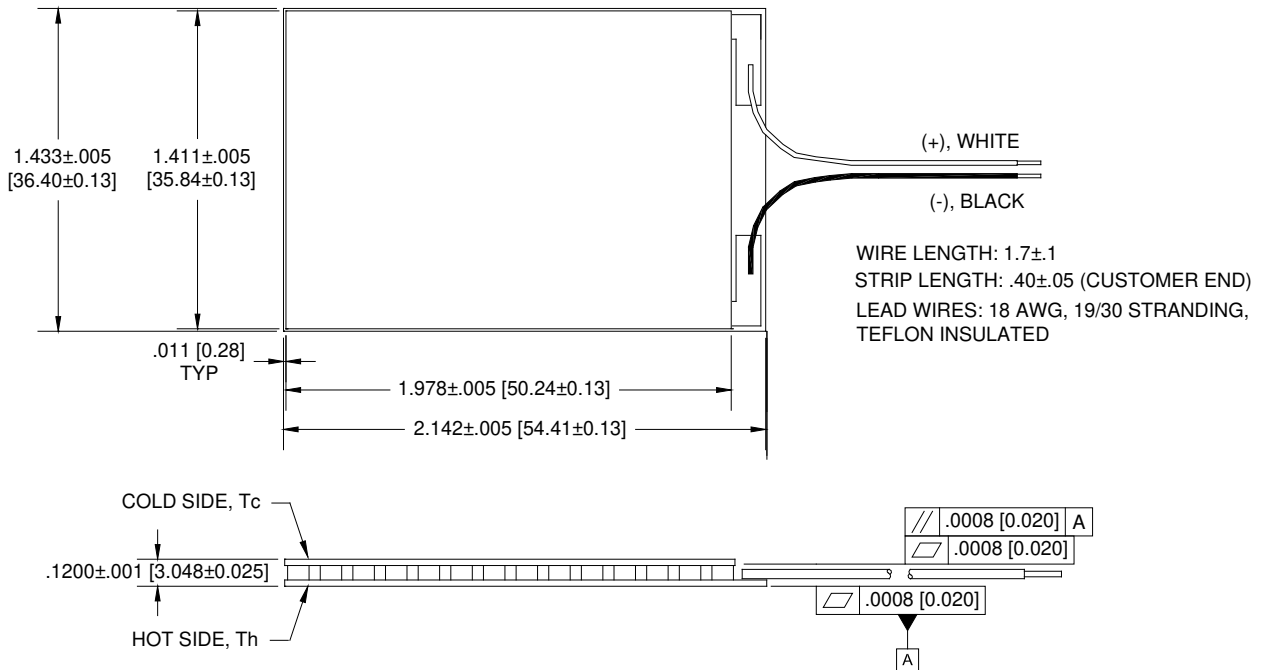
TYPICAL PERFORMANCE CURVES

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.

MECHANICAL CHARACTERISTICS



Dimensions in [] are millimeters

For customer support or general questions please contact a local office or visit our website at www.marlow.com.