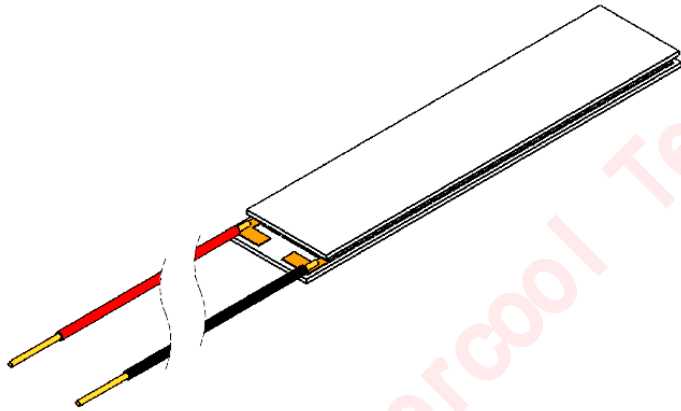




# Technical Data Sheet for XLT2435

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50	100
$\Delta T_{max}$ (°C):	58	65	80
Qmax (watts):	84	92	107
I <sub>max</sub> (amps):	8.0	7.9	7.7
V <sub>max</sub> (vdc):	16.2	18.1	21.6
AC Resistance (ohms):	1.69	---	---

### 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.
- Lapped option available for multiple module applications.
- Set of 6 modules ACR matched available.

### ORDERING OPTIONS

Model Number	Description
XLT2435-03AC	Leadwires, Lapped
XLT2435-36AC	Leadwires, Lapped, Set of 6 Modules

### 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 TEM Installation Guide.

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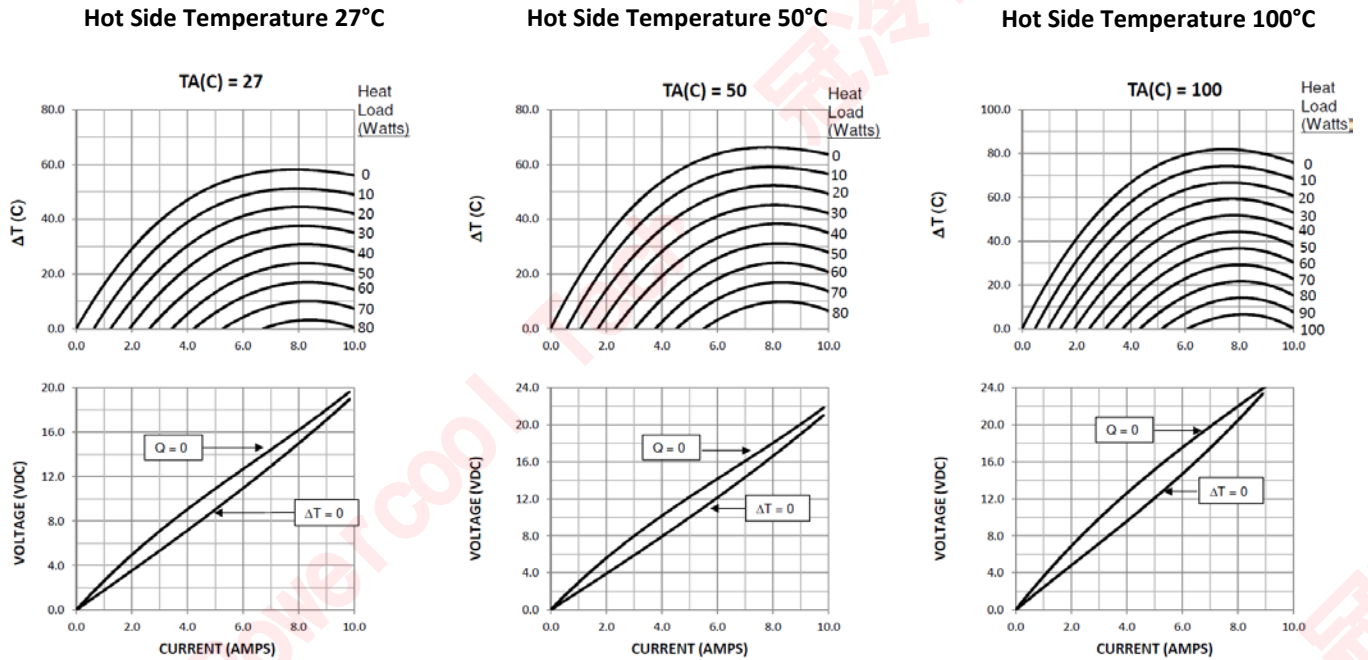
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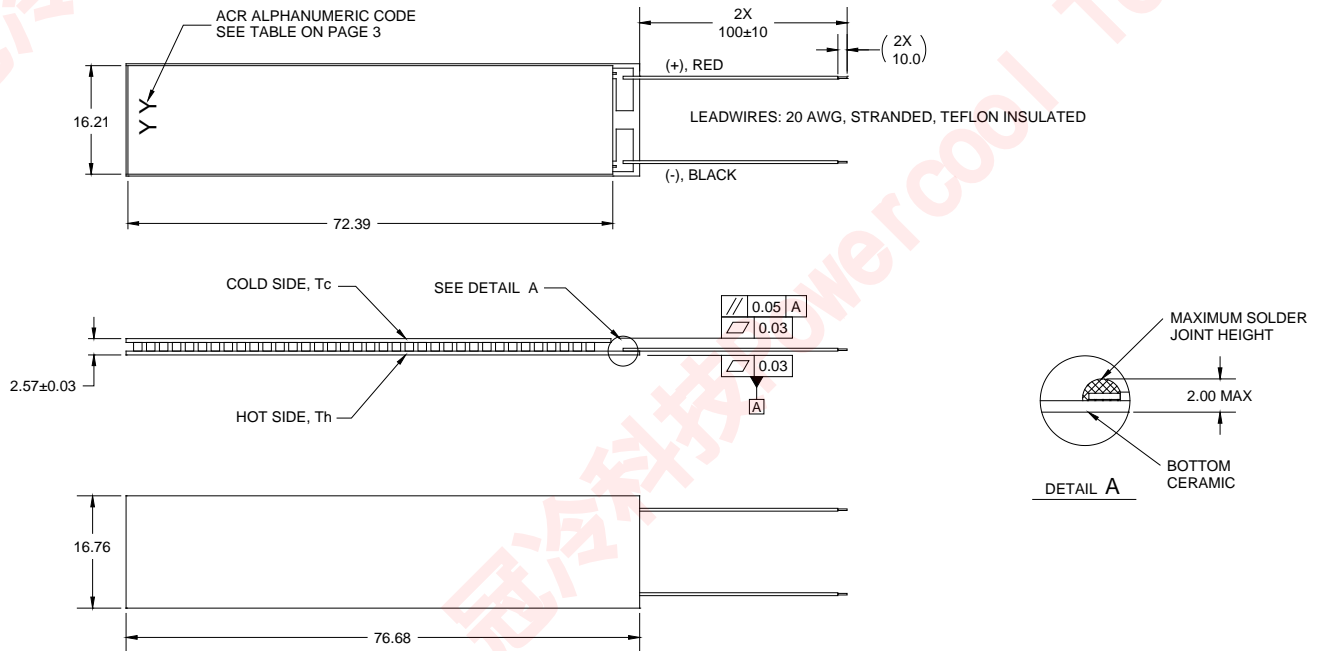
## TYPICAL PERFORMANCE CURVES

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C or 100°C, contact one of our Applications Engineers at 877-627-5691.

## MECHANICAL CHARACTERISTICS



All units are in millimeters unless otherwise stated.

For customer support or general questions please contact a local office or visit our website at [www.marlow.com](http://www.marlow.com).

Marlow reserves the right to make changes without notice.



XLT2435-36AC ACR Matching Table at 23.0±0.5°C			
Alphanumeric Code	ACR (ohms)		
	Greater Than	Less Than or Equal to	Matching Range (max-min)
A0	1.458	1.502	0.044
A1	1.502	1.546	0.044
A2	1.546	1.590	0.044
A3	1.590	1.634	0.044
A4	1.634	1.678	0.044
A5	1.678	1.722	0.044
A6	1.722	1.766	0.044
A7	1.766	1.810	0.044
A8	1.810	1.854	0.044

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