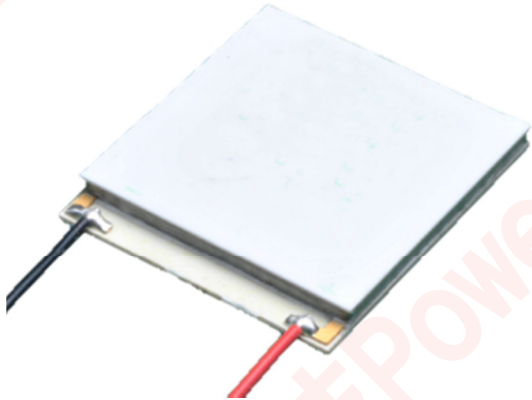


# Technical Data Sheet for XLT2444

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	59.4	67.4
Q <sub>max</sub> (watts):	70.8	78
I <sub>max</sub> (amps):	7.8	7.7
V <sub>max</sub> (vdc):	14.0	15.3
AC Resistance (ohms):	1.47	---

### PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 130°C.
- Ceramic Material: Aluminum Oxide
- Designed for temperature cycling applications.
- Capable of rapid heating and cooling rates.
- Porch configuration for high strength leadwire connection.
- High strength for rugged environment.
- Height matched sets are within 0.02mm

### ORDERING OPTIONS

Model Number	Description
XLT2444-03AC	Base module.
XLT2444-04AC	Base module, diced.
XLT2444-16AC	Base module, height matched set of 6, ACR matched to within 10 m-Ω
XLT2444-36AC	Base module, height matched set of 6, ACR matched to within 5 m-Ω
XLT2444-12AC	Base module, height matched set of 2, ACR matched to within 5 m-Ω

### 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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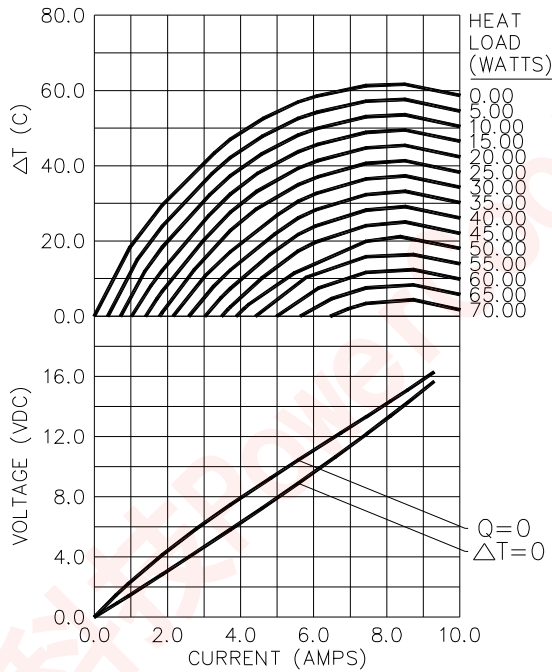
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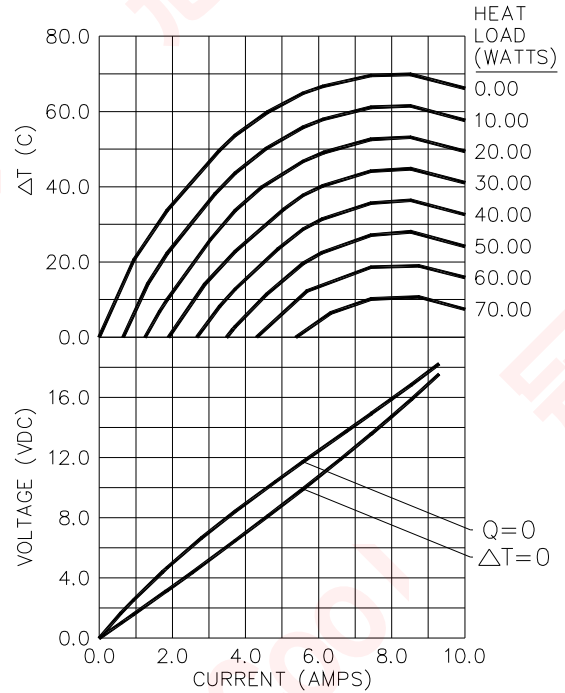


TYPICAL PERFORMANCE CURVES

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN  
Hot Side Temperature 27°C

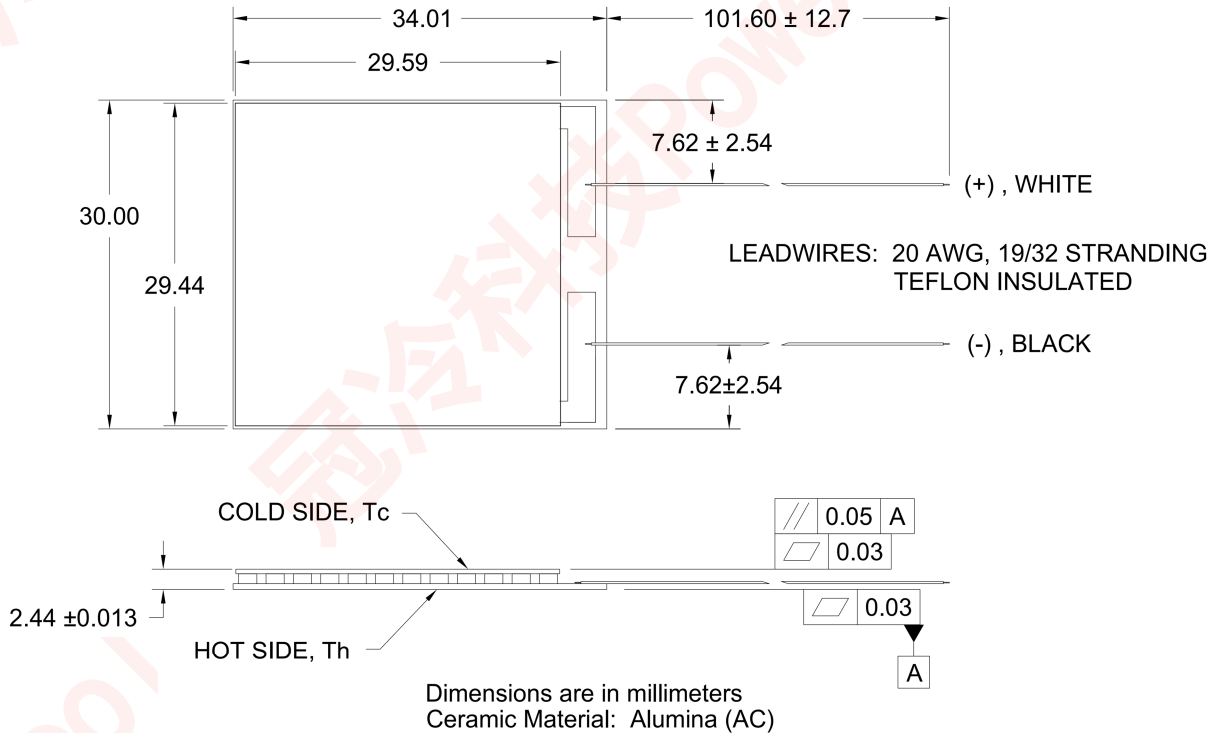


Hot Side Temperature 50°C



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



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 product changes without notice.