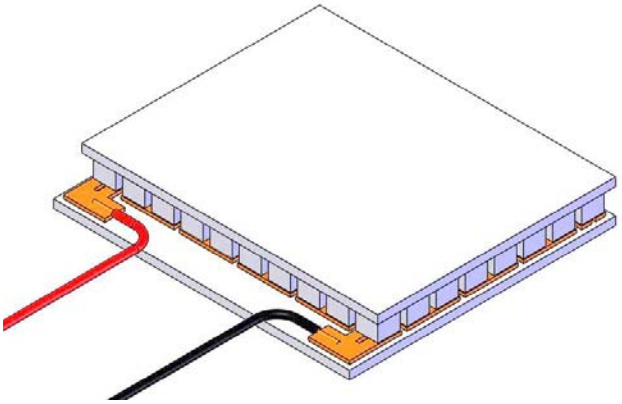
# Technical Data Sheet for XLT2404

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

| | | |
|---|---|---|
| Hot Side Temperature (°C) | 50 | 100 |
| Δ Tmax (°C-dry $N_2$): | 70 | 85 |
| Qmax (watts): | 50 | 57 |
| Imax (amps): | 15.2 | 14.5 |
| Vmax (vdc): | 5.1 | 6.1 |
| AC Resistance @ 27°C (ohms): | 0.25 | --- |

### 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.

### ORDERING OPTIONS

| Model Number | Description |
|---|---|
| XLT2404-04AC | Leadwires, Lapped |

### 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 methods: Clamp with uniform pressure to a flat surface with thermal interface material. For additional information, please refer to our TEC Installation Guide.


II-VI Marlow – Dallas, TX USA
214-340-4900
877-627-5691
marlow.sales@ii-vi.com

Marlow Industries Europe
GmbH - Germany
+49 (0) 6150 5439 - 403
info@marlow-europe.eu

II-VI Japan Inc.
81 43 297 2693 (tel)
center@ii-vi.co.jp
www.ii-vi.co.jp

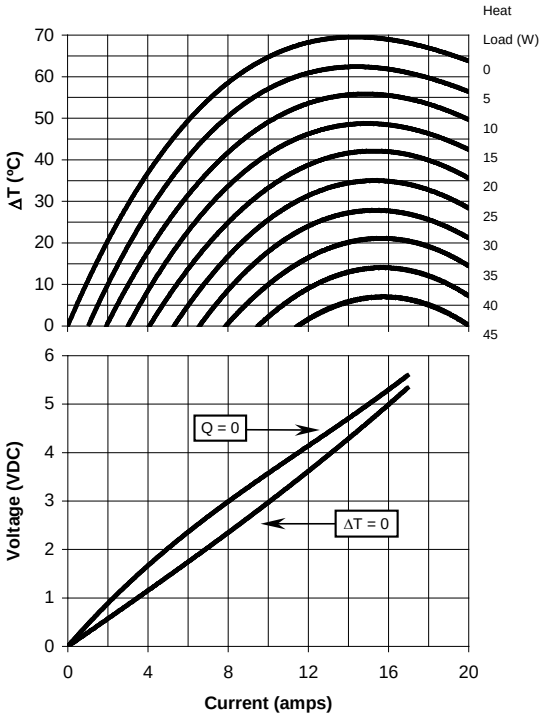
II-VI Singapore Pte., Ltd.
(65) 6481 8215 (tel)
info@ii-vi.com.sg

Marlow Industries China, II-VI
Technologies Beijing
86-10-643 98226
info@iivibj.com

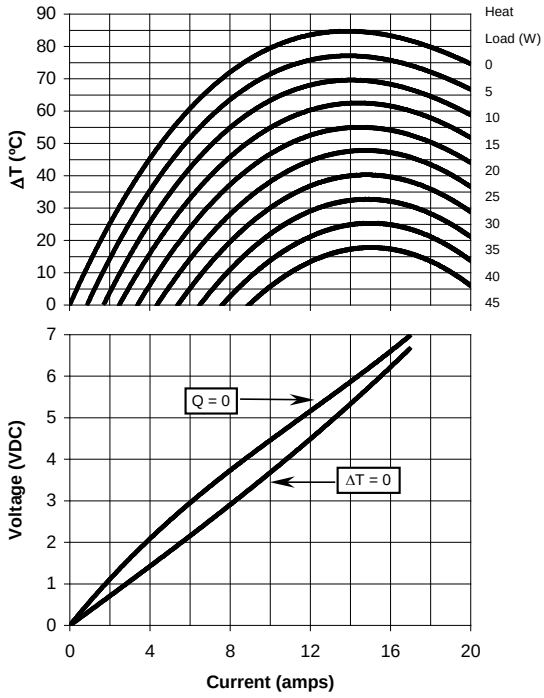
## TYPICAL PERFORMANCE CURVES

### ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

**Hot Side Temperature 50°C**

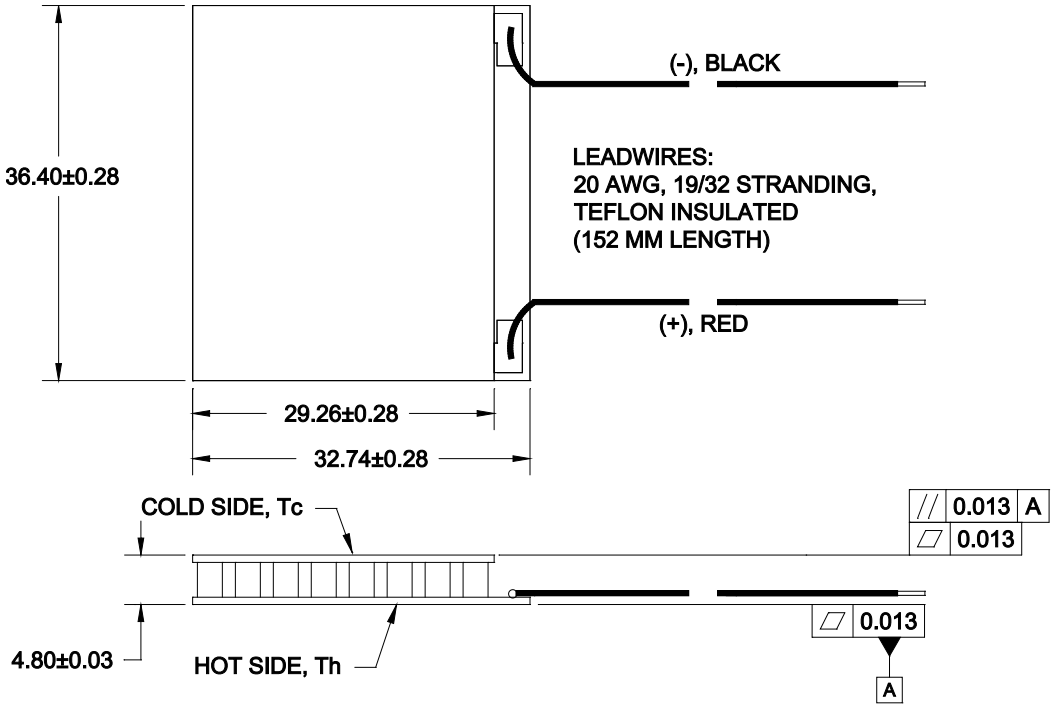



**Hot Side Temperature 100°C**




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




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.