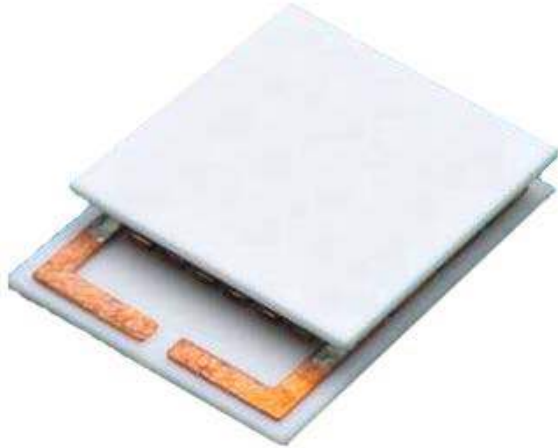




# Technical Data Sheet for XLT3-4

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	65	73
Q <sub>max</sub> (watts):	9	10
I <sub>max</sub> (amps):	3.7	3.7
V <sub>max</sub> (vdc):	3.6	4.1
AC Resistance (ohms):	0.8	---

### PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 125°C.
- Ceramic Material: Aluminum Oxide
- Designed for thermal cycling applications.
- Capable of rapid heating and cooling rates.
- Porched configuration for enhanced leadwire strength.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- RTV sealing option available.
- Lapped option available for multiple module applications.
- Leadwires attached with 218°C solder.

### ORDERING OPTIONS

Model Number	Description
XLT3-4-01	Leadwires
XLT3-4-01L	Leadwires, Lapped
XLT3-4-01S	Leadwires, Sealed
XLT3-4-01LS	Leadwires, Lapped, RTV Sealed
XLT3-4-01PS	Leadwires, Lapped, Parylene Sealed

### 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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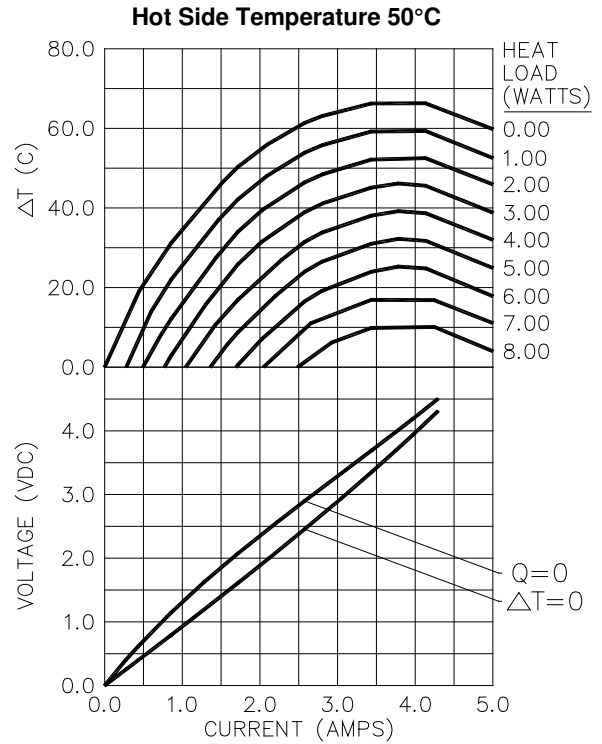
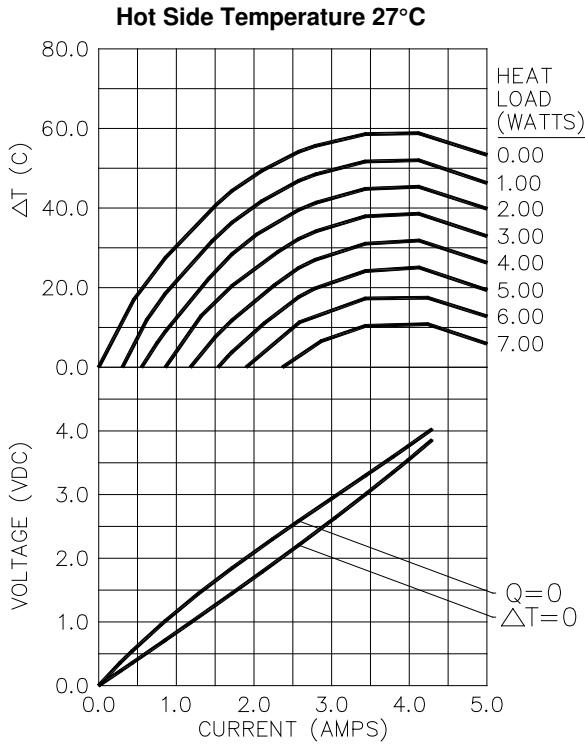
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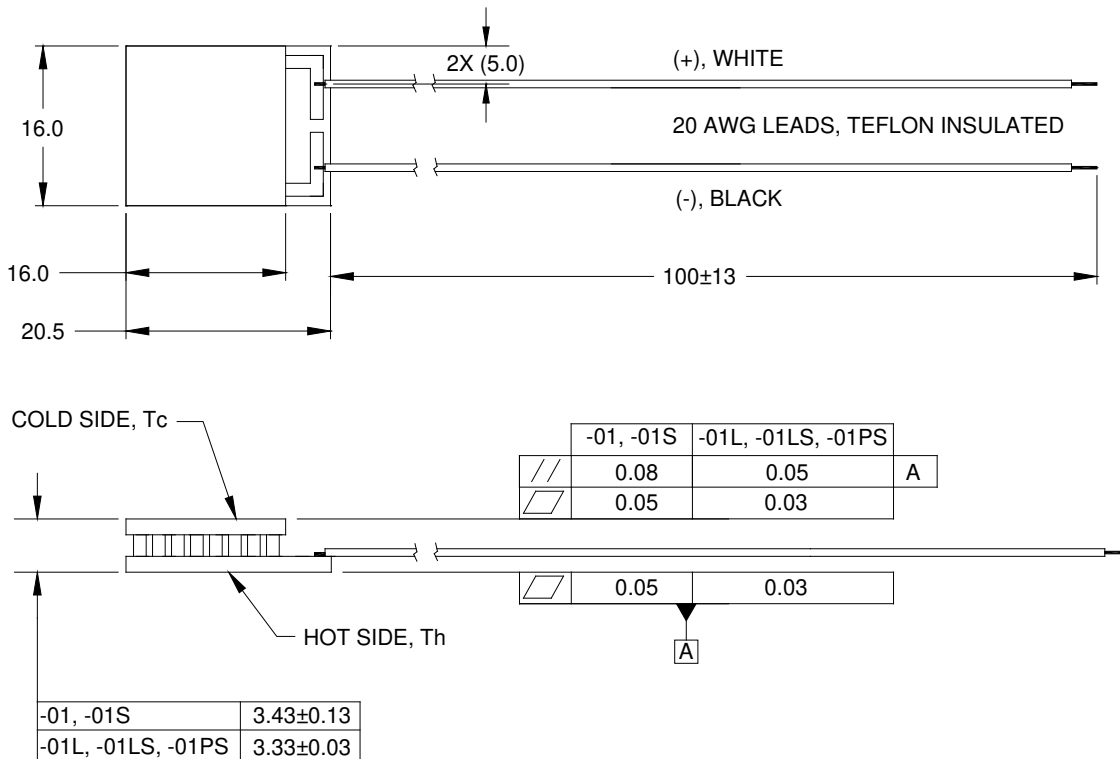
TYPICAL PERFORMANCE CURVES

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



All units are 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).