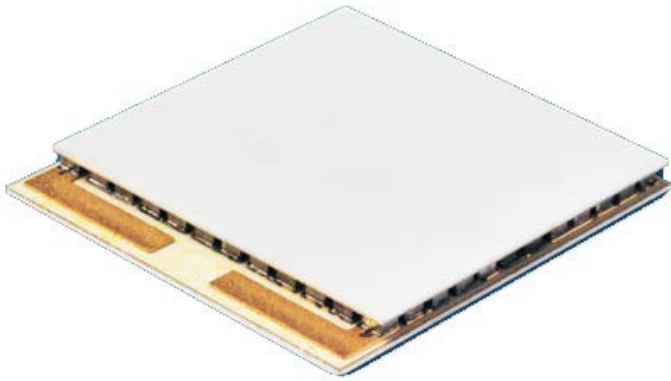




# Technical Data Sheet for XLT2422

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	66	74
Qmax (watts):	36	39
I <sub>max</sub> (amps):	3.7	3.7
V <sub>max</sub> (vdc):	14.7	16.4
AC Resistance (ohms):	3.2	---

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

### ORDERING OPTIONS

Model Number	Description
XLT2422-00L	Lapped
XLT2422-00LS	Lapped, Sealed
XLT2422-01L	Leadwires, Lapped
XLT2422-01LS	Leadwires, Lapped, Sealed
XLT2422-02LS	Leadwires, Lapped, Sealed
XLT2422-14LS	Leadwires, Lapped, Sealed, Set of 4 ACR Matched
XLT2422-16LS	Leadwires, Lapped, Sealed, Set of 6 ACR Matched

### 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.

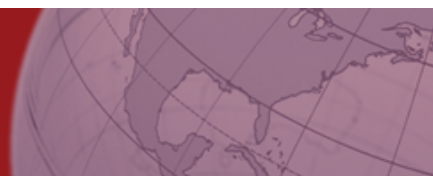
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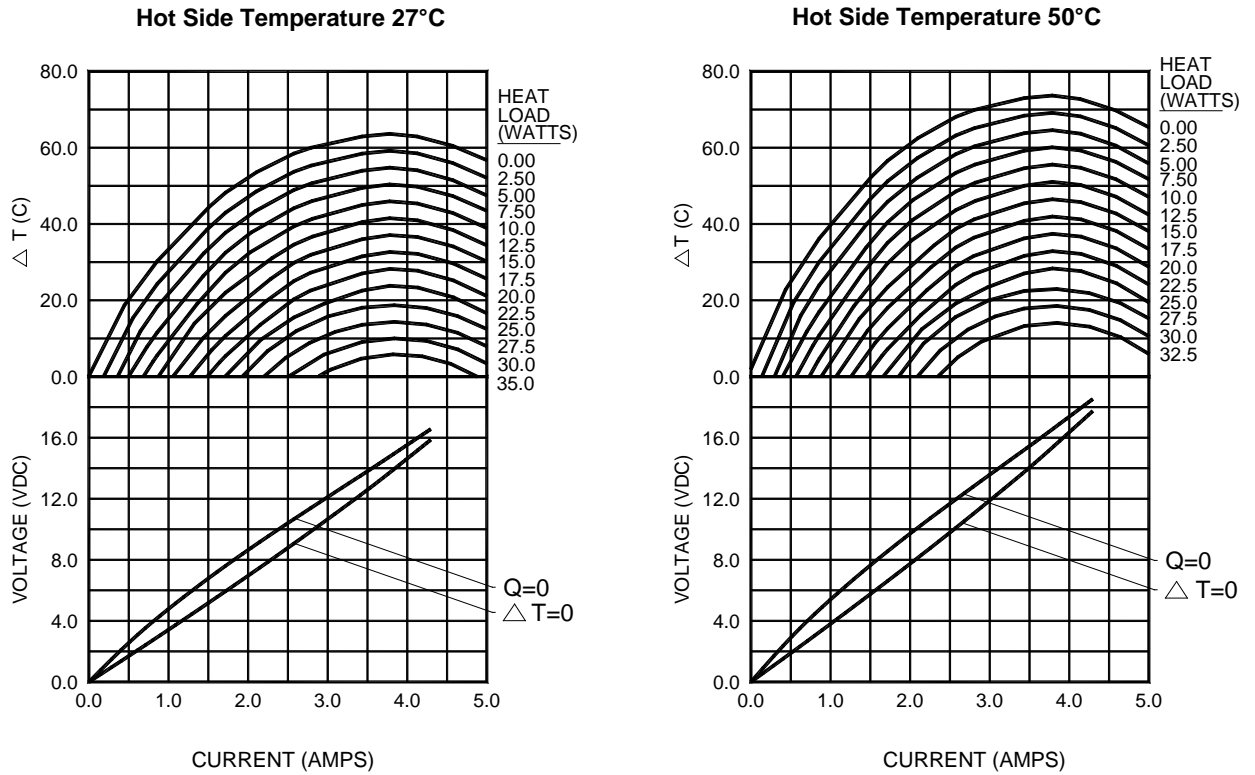
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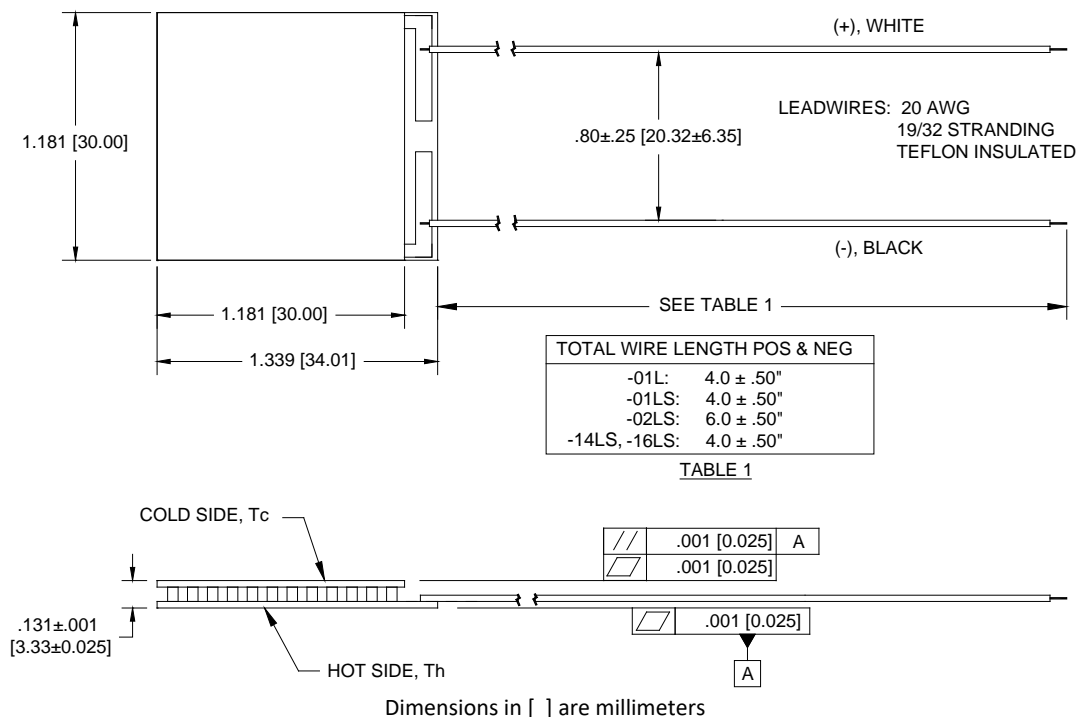
TYPICAL PERFORMANCE CURVES

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



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