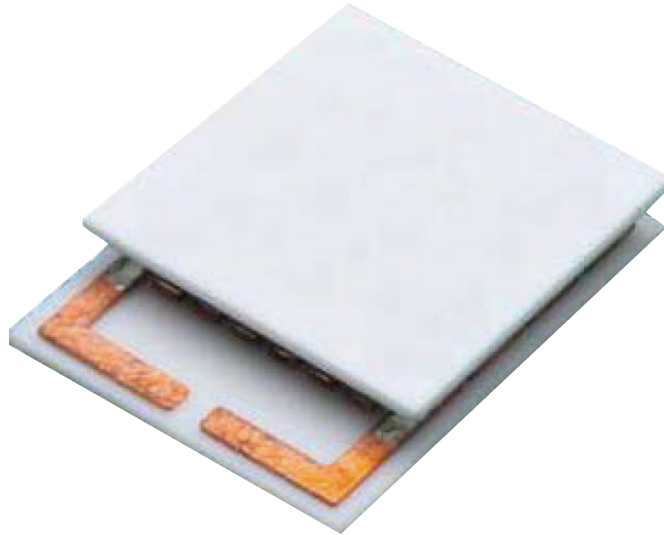


Thermoelectric Coolers (TEC)

# THERMOCYCLER XLT3-4

## Single-Stage Thermoelectric Module



### 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

**Nominal Performance in Nitrogen**

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C)	65	73
Qmax (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	--

**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**

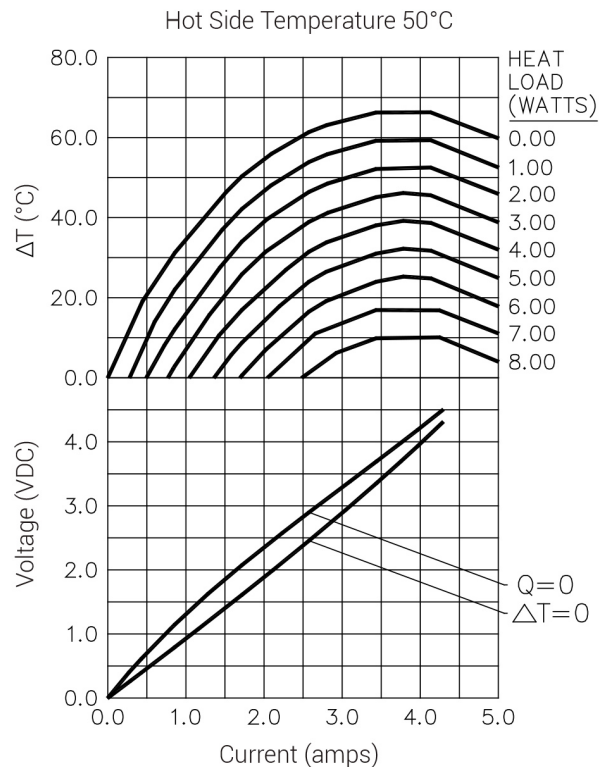
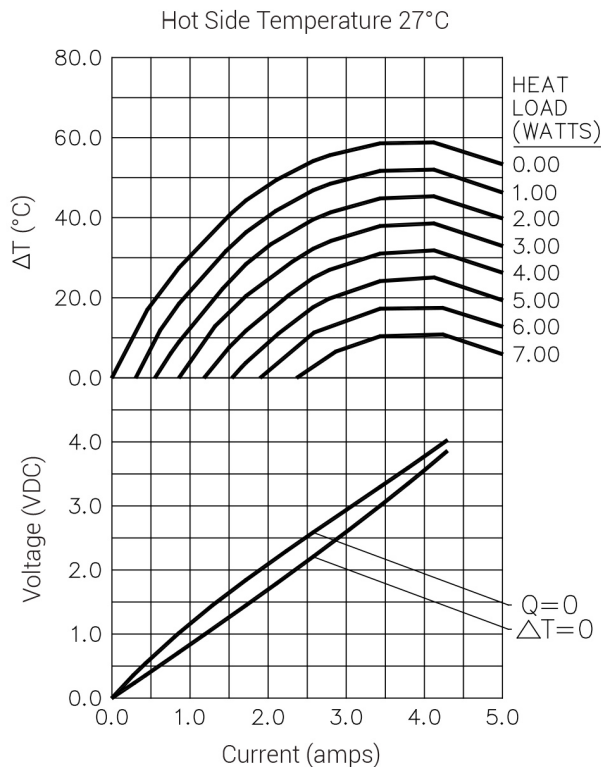
For maximum reliability, storage and operation below 125°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

**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.

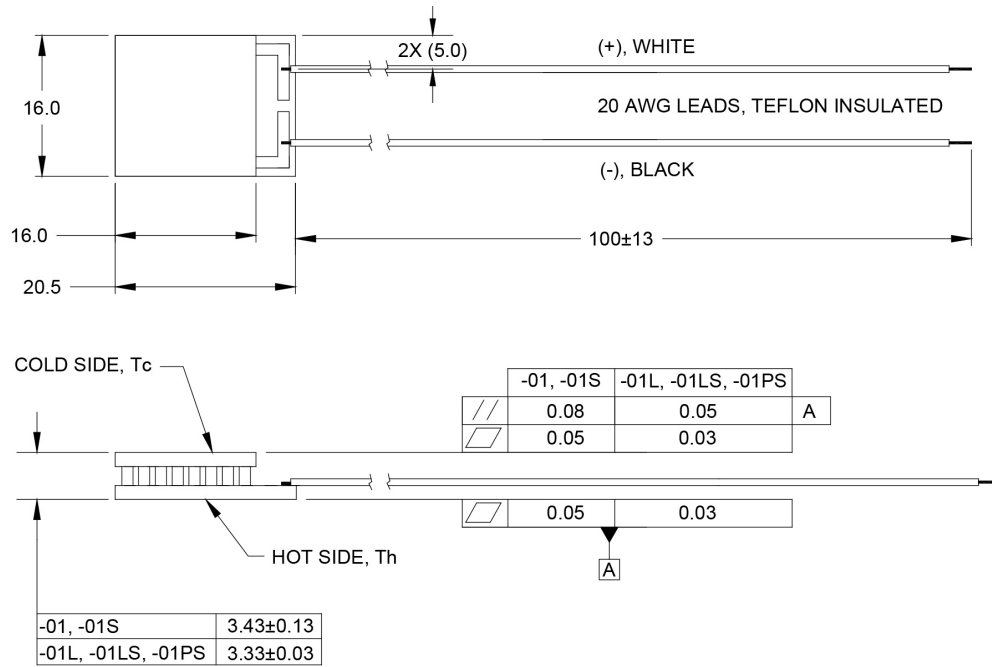
**Typical Performance Curves**

Environment: One atmosphere dry nitrogen



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, please contact us.

Mechanical Characteristics



All units are millimeters unless otherwise stated.