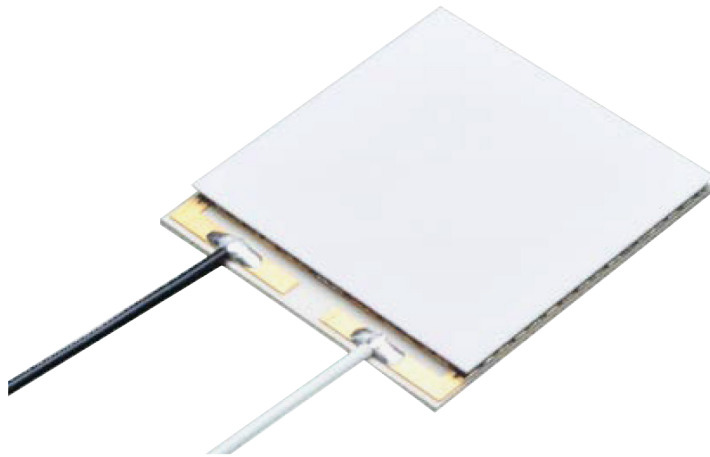


THERMOCYCLER XLT2418

Single-Stage Thermoelectric Module



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 for multiple module applications
- Diced option for further mechanical stress relief
- Set of modules ACR matched available

Nominal Performance in Nitrogen

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C)	56.5	64.0
Qmax (watts)	127	141
I _{max} (amps)	13.9	13.8
V _{max} (vdc)	14.1	15.7
AC Resistance (ohms)	0.83	--

Ordering Options

Model Number	Description
XLT2418-03AC	Leadwires
XLT2418-04AC	No Leadwires
XLT2418-05AC	Leadwires, Sealed
XLT2418-06AC	Leadwires, Diced, 64 sections
XLT2418-07AC	No Leadwires, Sealed
XLT2418-08AC	Leadwire pad and TEC Sealed
XLT2418-36AC	Leadwires, Sealed, Six Coolers, ACR matched set

Operation Cautions

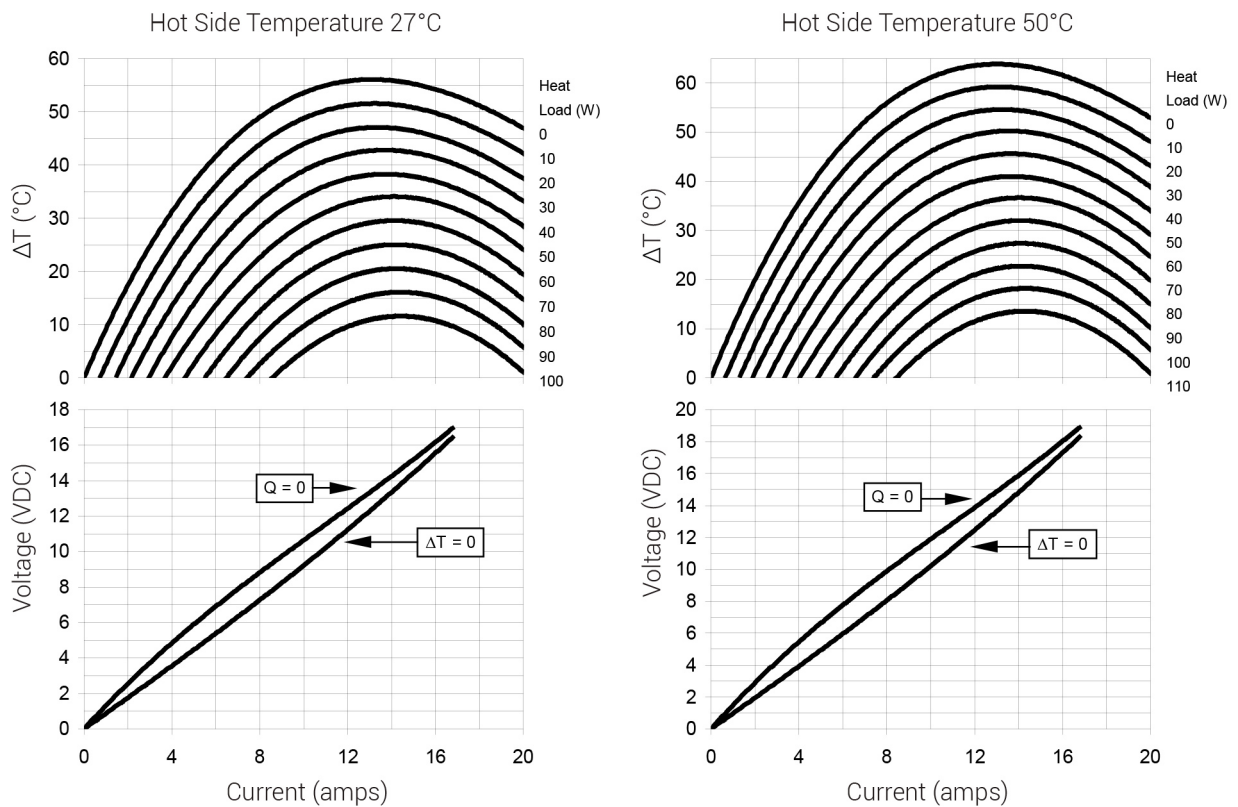
For maximum reliability, storage and operation below 125°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

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.

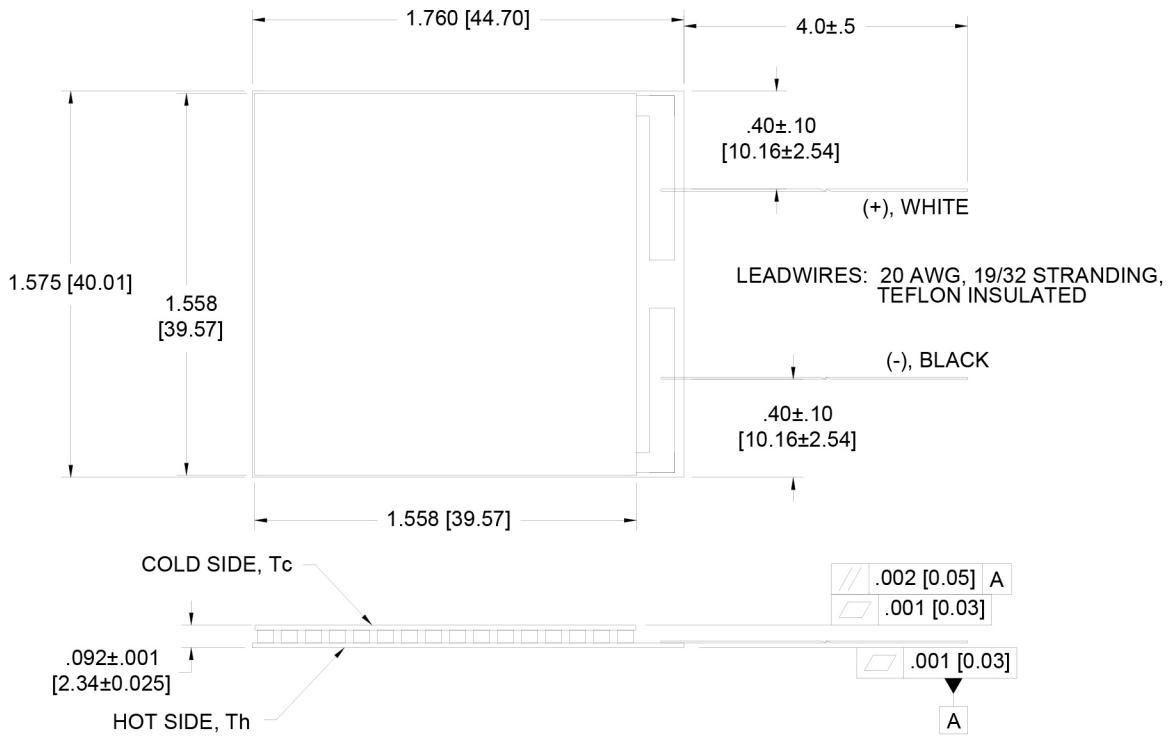
Typical Performance Curves

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



Dimensions in [] are millimeters