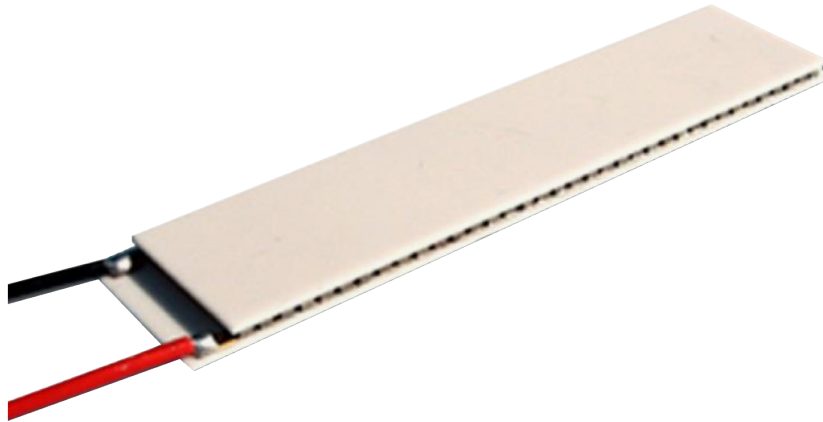


THERMOCYCLER XLT2427

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

Nominal Performance in Nitrogen

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C)	53	62
Qmax (watts)	76	86
I _{max} (amps)	7.5	7.5
V _{max} (vdc)	15.8	17.5
AC Resistance (ohms)	1.66	--

Ordering Options

Model Number	Description
XLT2427-03AC	Leadwires, Lapped
XLT2427-03AC-31	Leadwires, Lapped, Sealed
XLT2427-04AC	Lapped, without Leadwires
XLT2427-36AC	Leadwires, Lapped, ACR Matched set of 6 TEC

Operation Cautions

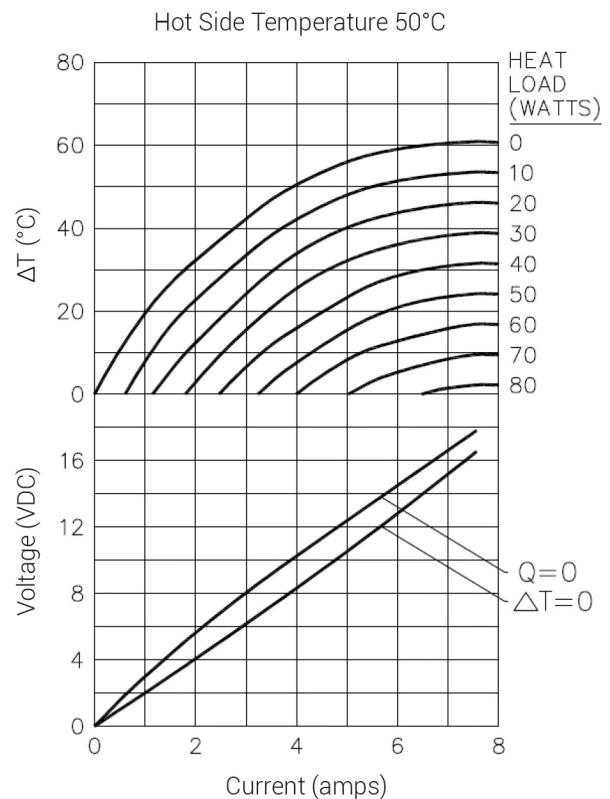
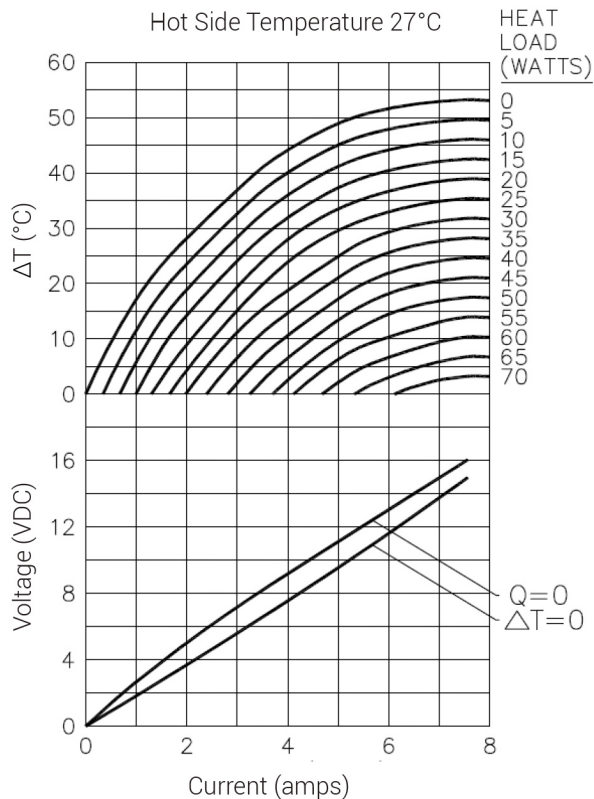
For maximum reliability, storage and operation below 125°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

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.

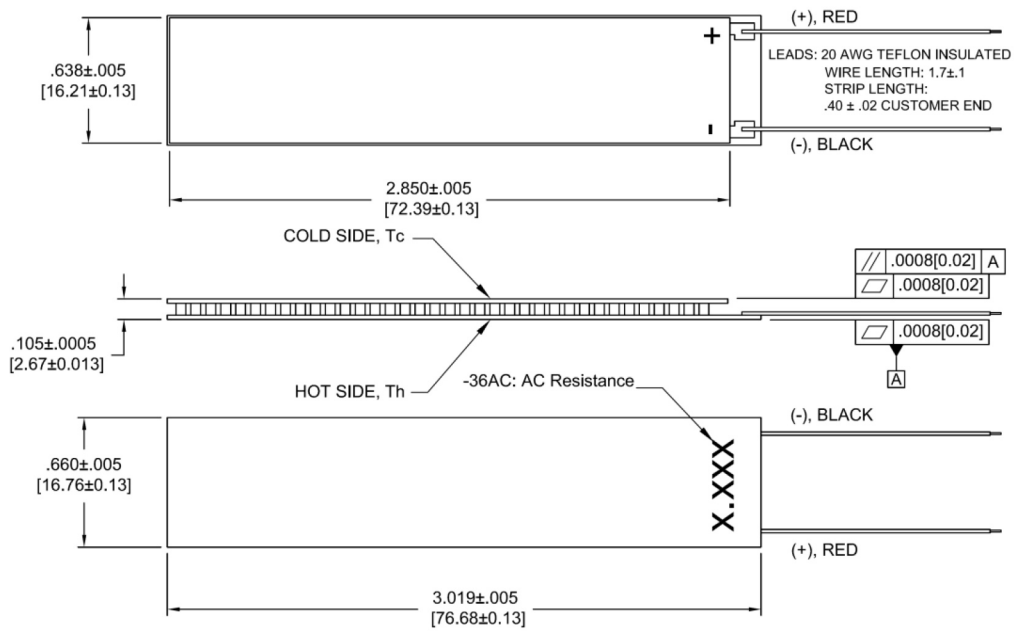
Typical Performance Curves

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