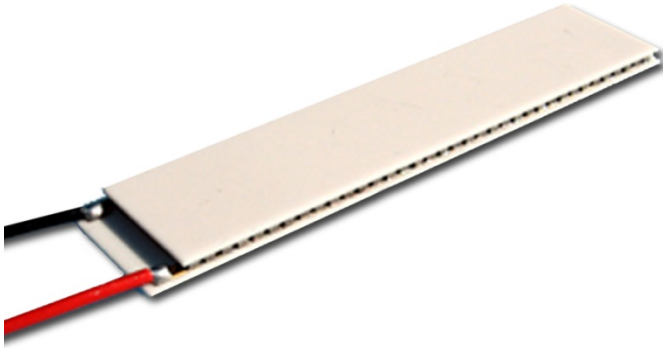




Technical Data Sheet for XLT2427

Single-Stage Thermoelectric Module



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	---

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
XLT2427-00AC	Un-lapped, without Leadwires
XLT2427-03AC	Leadwires, Lapped
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.

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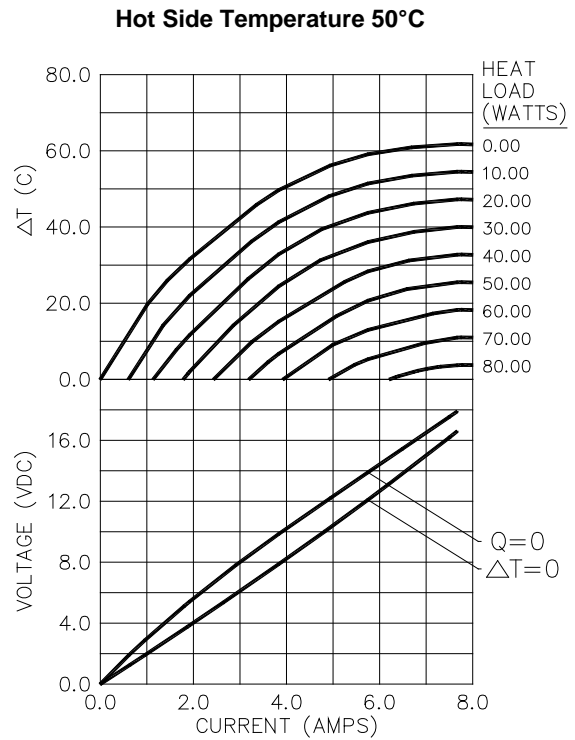
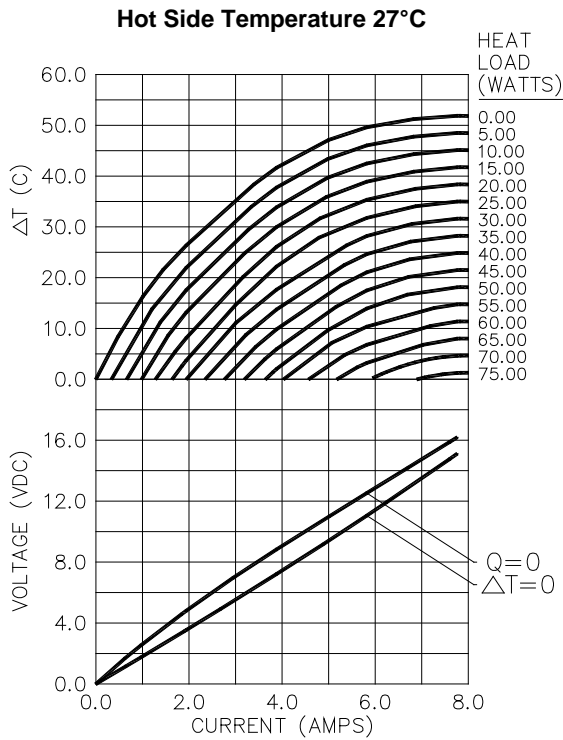
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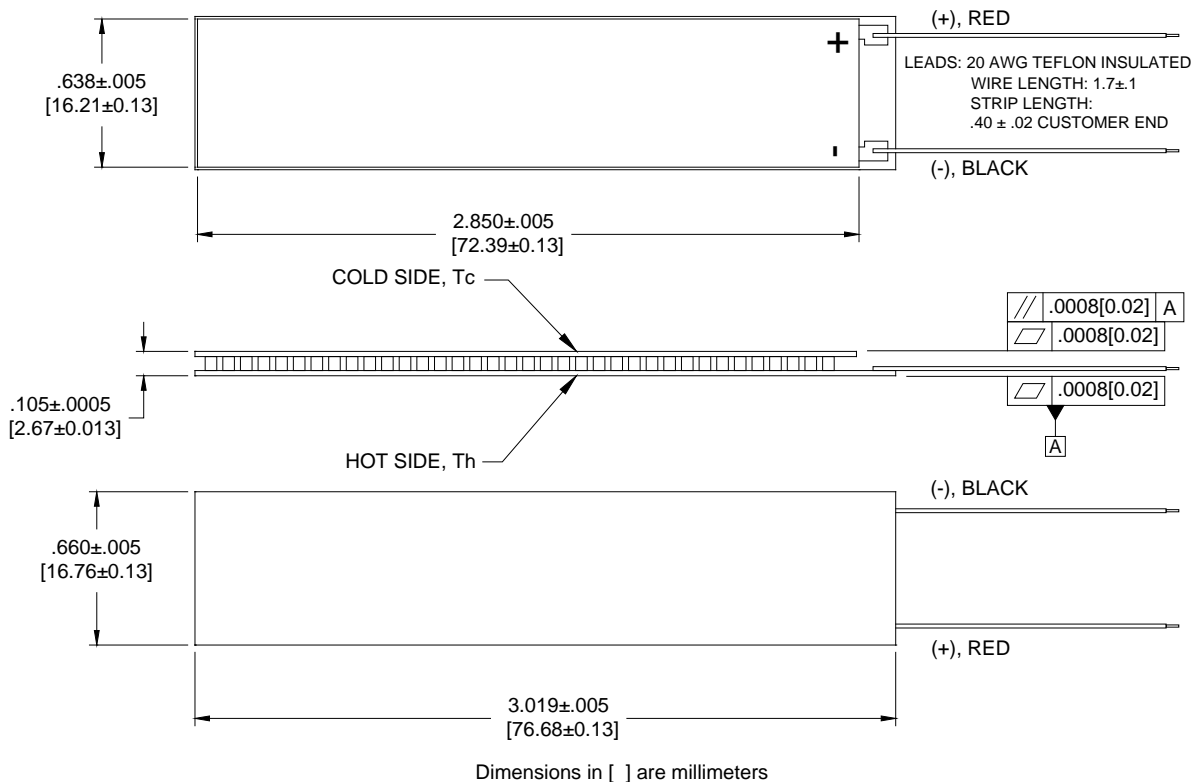
TYPICAL PERFORMANCE CURVES

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.