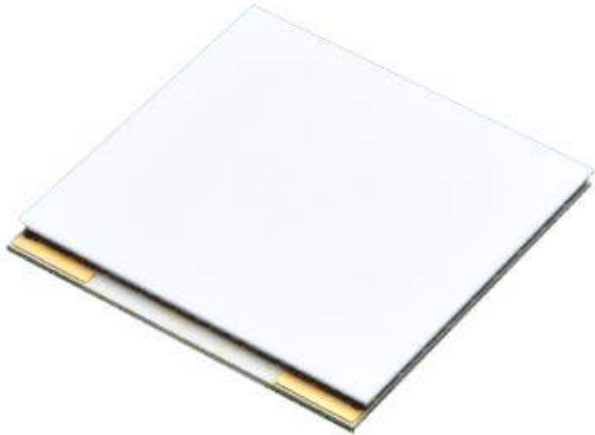




Technical Data Sheet for XLT2393

Single-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C):	58	67
Q _{max} (watts):	187	208
I _{max} (amps):	13.4	13.3
V _{max} (vdc):	21.4	23.7
AC Resistance (ohms):	1.33	---

Performance values account for the heat sink resistance losses through the base ceramic.

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.
- Diced option for further mechanical stress relief.

ORDERING OPTIONS

Model Number	Description
XLT2393-00L	Lapped
XLT2393-00LS	Lapped, Sealed
XLT2393-01L	Leadwires, Lapped
XLT2393-01LS	Leadwires, Lapped, Sealed
XLT2393-01LD	Leadwires, Lapped, Diced
XLT2393-02LS	Leadwires 6 inch, Lapped, Sealed
XLT2393-05LS	Leadwires 8 inch, Lapped, Sealed
XLT2393-06SD	Leadwires 11", Lapped, Sealed, Diced, 9 Sections,
XLT2393-07SD	Leadwires 11", Lapped, Sealed, Diced, 25 Sections
XLT2393-08SD	Leadwires 11", Lapped, Sealed, Diced, 20 Sections
XLT2393-53SD	Leadwires 4", Sealed, Diced, 20 Sections, Metalized Base
XLT2393-54SD	Leadwires 11", Sealed, Diced, 20 Sections, Metalized Base

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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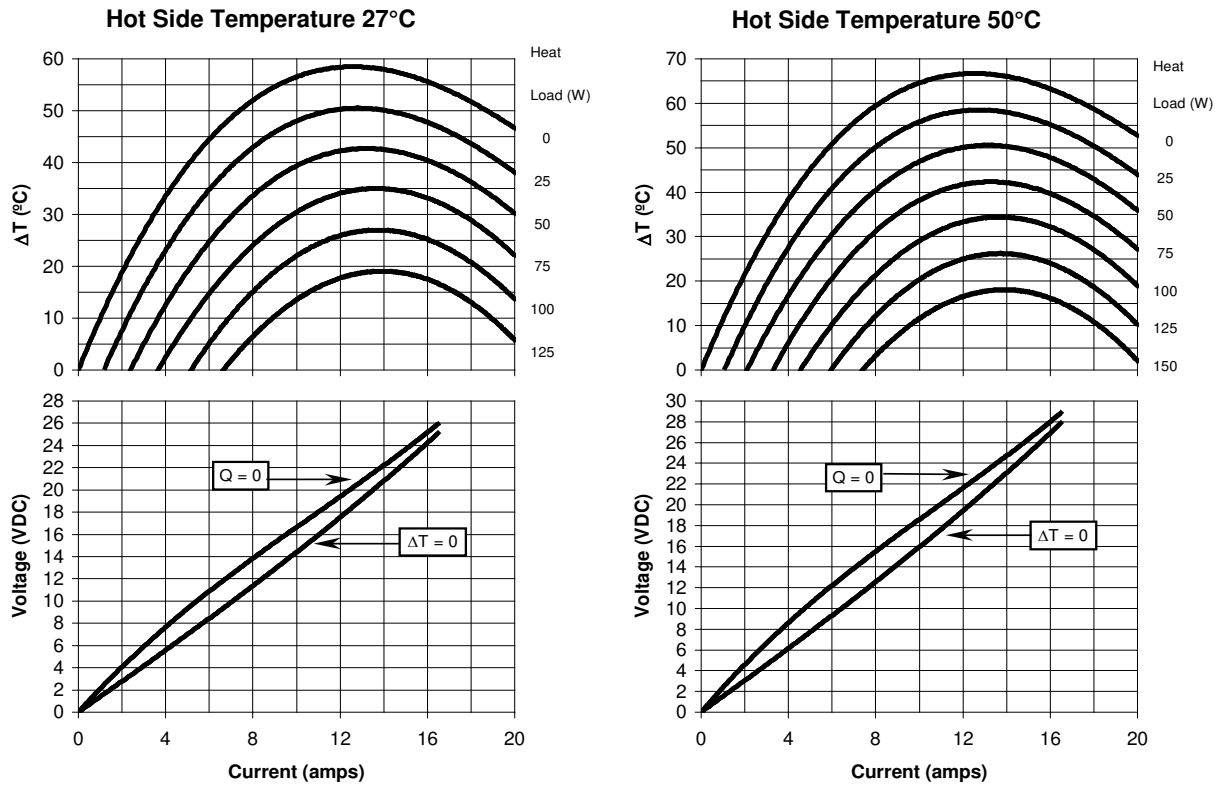
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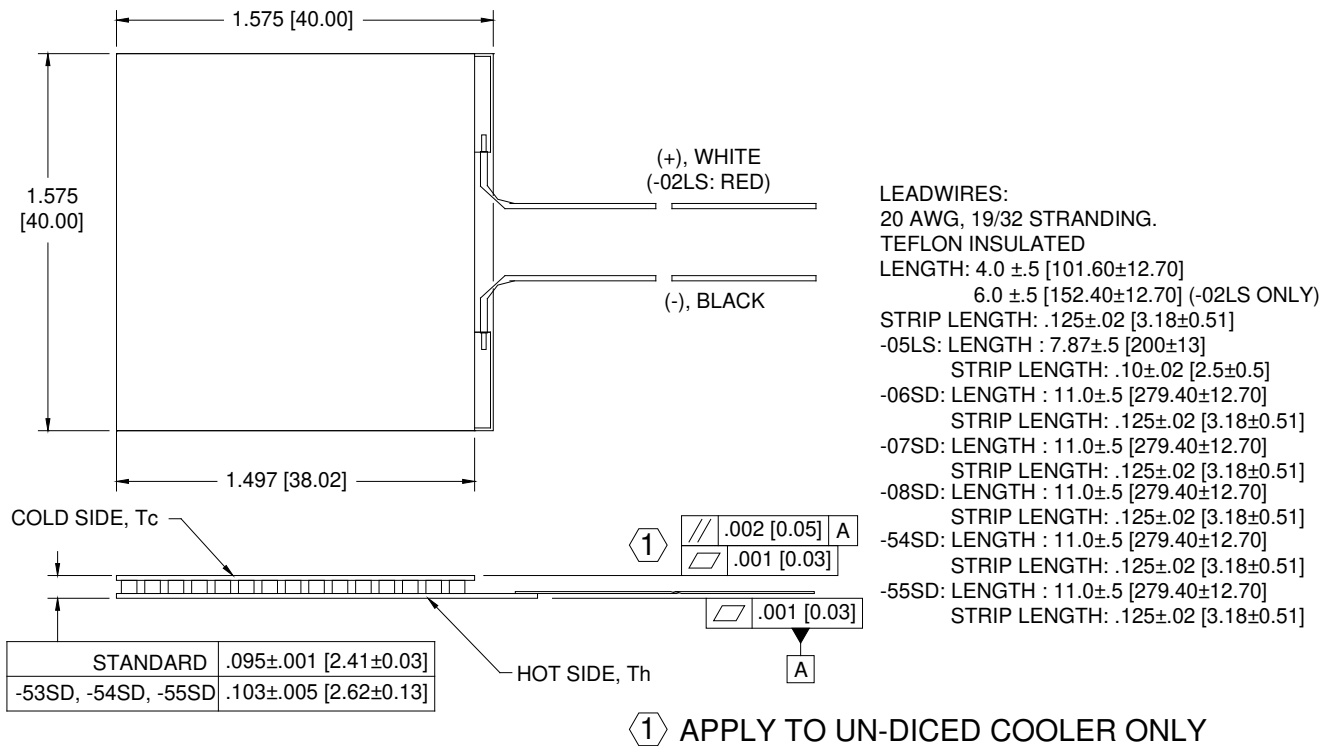
TYPICAL PERFORMANCE CURVES

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.