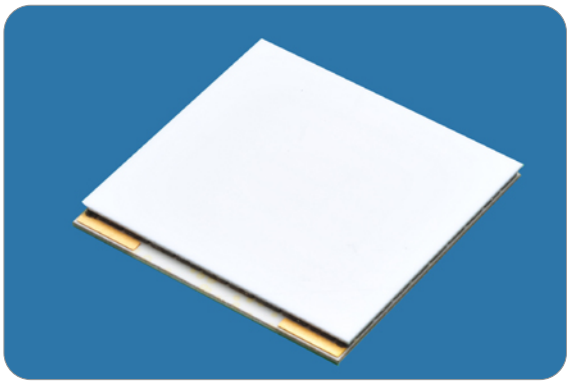
TECHNICAL DATA SHEET



XLT2393

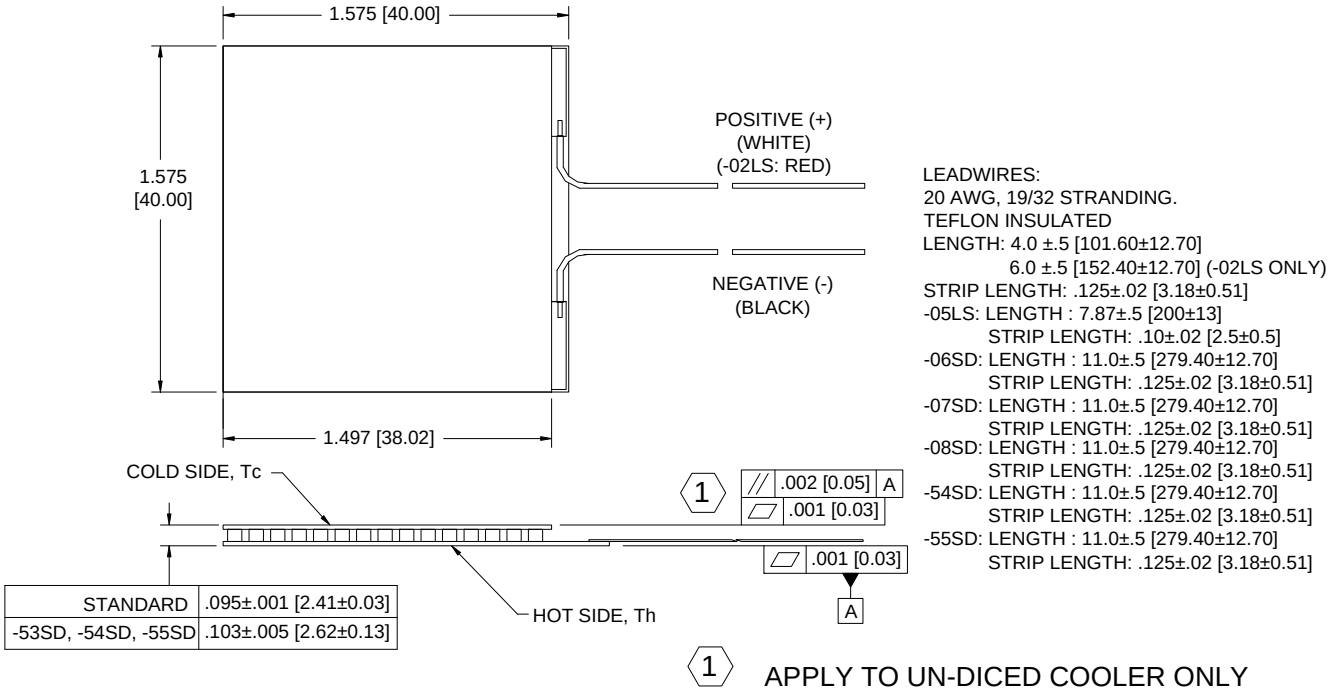
Single-Stage Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	58	67
Qmax (watts):	187	208
Imax (amps):	13.4	13.3
Vmax (vdc):	21.4	23.7
AC Resistance (ohms):	1.33	---

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

MECHANICAL CHARACTERISTICS



LEADWIRES:
20 AWG, 19/32 STRANDING.
TEFLON INSULATED
LENGTH: 4.0 ±.5 [101.60±12.70]
6.0 ±.5 [152.40±12.70] (-02LS ONLY)
STRIP LENGTH: .125±.02 [3.18±0.51]
-05LS: LENGTH : 7.87±.5 [200±13]
STRIP LENGTH: .10±.02 [2.5±0.5]
-06SD: LENGTH : 11.0±.5 [279.40±12.70]
STRIP LENGTH: .125±.02 [3.18±0.51]
-07SD: LENGTH : 11.0±.5 [279.40±12.70]
STRIP LENGTH: .125±.02 [3.18±0.51]
-08SD: LENGTH : 11.0±.5 [279.40±12.70]
STRIP LENGTH: .125±.02 [3.18±0.51]
-54SD: LENGTH : 11.0±.5 [279.40±12.70]
STRIP LENGTH: .125±.02 [3.18±0.51]
-55SD: LENGTH : 11.0±.5 [279.40±12.70]
STRIP LENGTH: .125±.02 [3.18±0.51]

1 APPLY TO UN-DICED COOLER ONLY

ORDERING OPTIONS

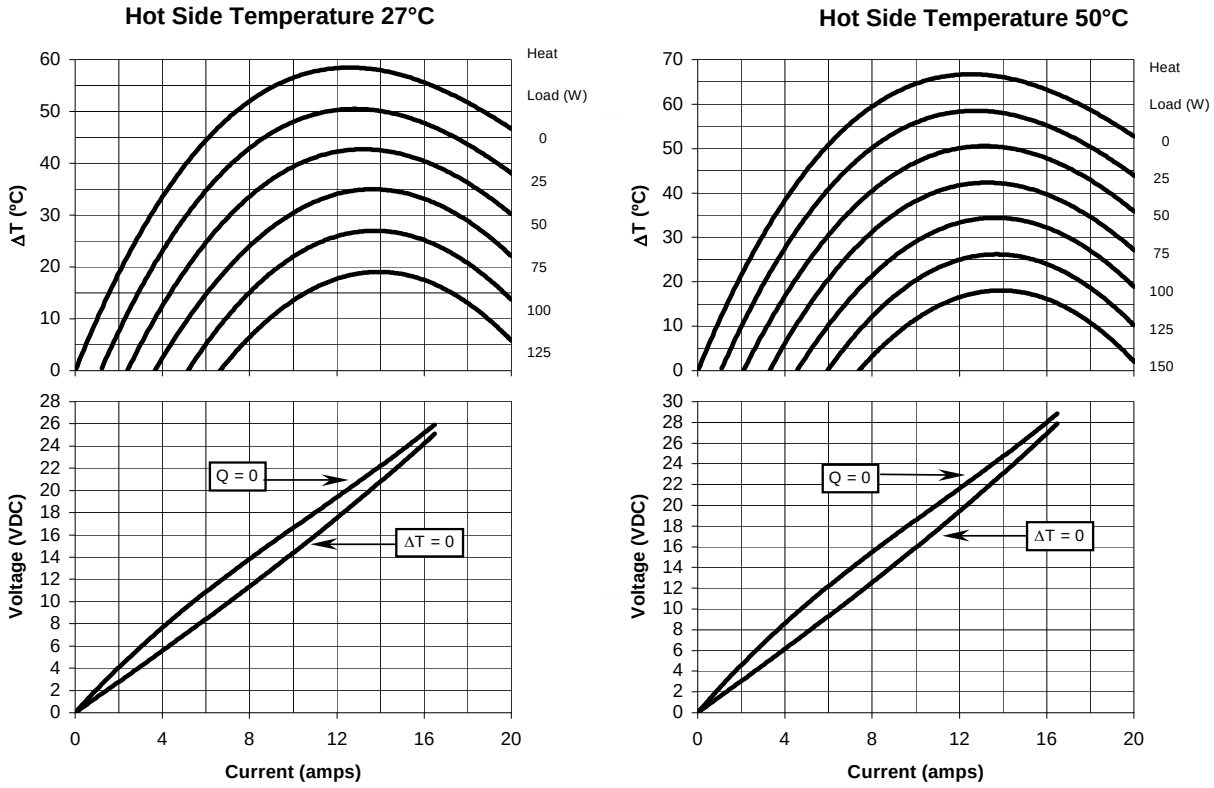
Model Number	Description
XLT2393-00L	Lapped
XLT2393-00LS	Lapped, Sealed
XLT2393-01L	Lapped, Leadwires
XLT2393-01LS	Lapped, Sealed, Leadwires
XLT2393-01LD	Lapped, Leadwires, Diced
XLT2393-02LS	Lapped, Sealed, 6 inch Leadwires
XLT2393-05LS	Lapped, Sealed, 8 inch Leadwires
XLT2393-06SD	Lapped, Diced, 9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

PRODUCT FEATURES

- Rated operating temperature of 125°C.
- Designed for temperature cycling applications.
- Capable of rapid heating and cooling rates.
- Porch configuration for high strength leadwire connection.
- RTV sealing option available.
- Lapped option available for multiple module applications.
- Diced option for further mechanical stress relief.

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.

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.

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.

CONTACT US:

For customer support or general questions please contact a local office below or visit our website at www.marlow.com.

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