



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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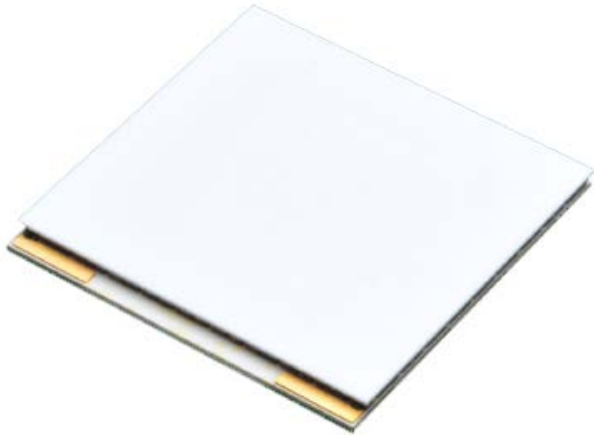
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Technical Data Sheet for XLT2393

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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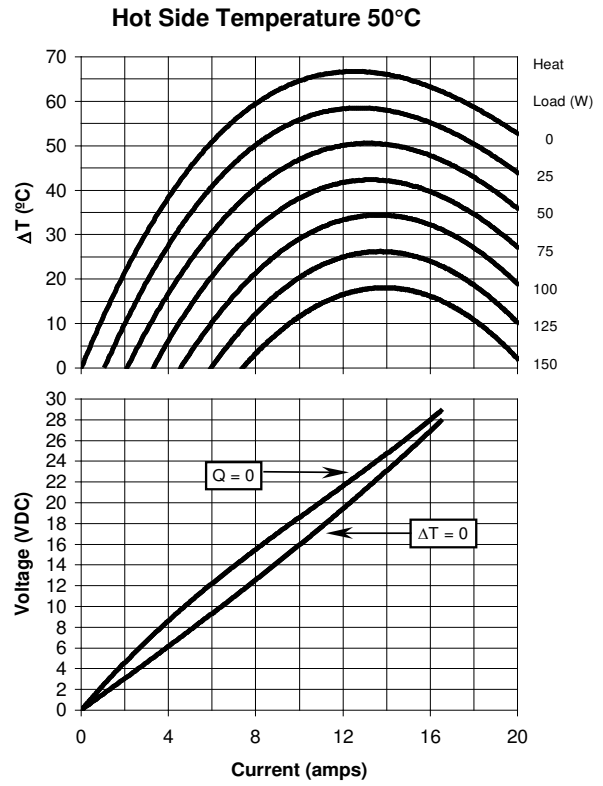
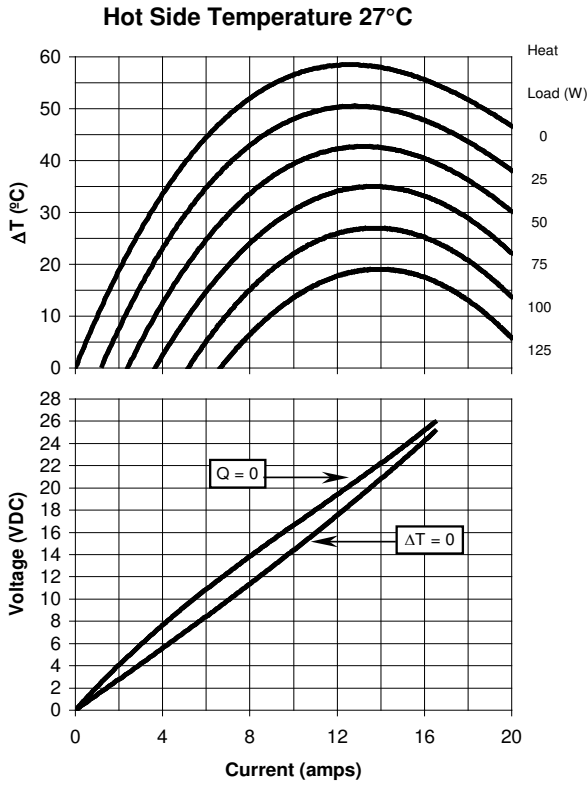
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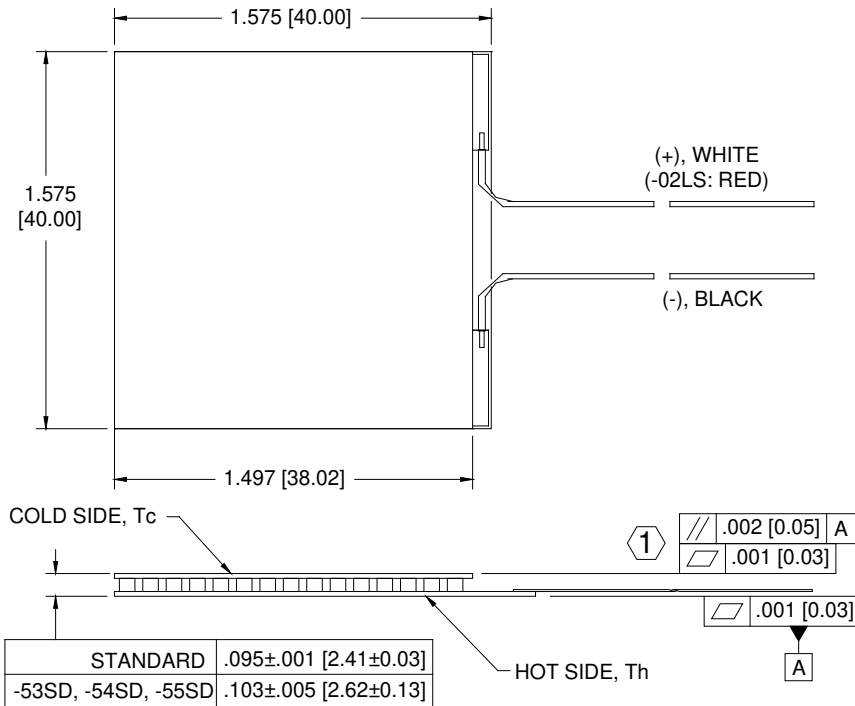
TYPICAL PERFORMANCE CURVES

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



- 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

Dimensions in [] are millimeters

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