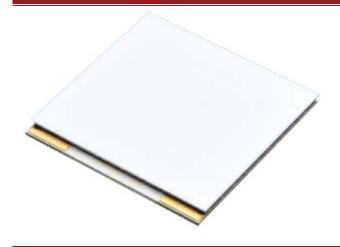




# **Technical Data Sheet for XLT2393**

## Single-Stage Thermoelectric Module



#### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
Δ Tmax (°C):	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.

### **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,
XL12393-003D	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
INSTALLATION	

#### **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.

II-VI Marlow – Dallas, TX USA 214-340-4900 877-627-5691 marlow.sales@ii-vi.com Marlow Industries Europe GmbH - Germany +49 (0) 6150 5439 - 403 info@marlow-europe.eu II-VI Japan Inc. 81 43 297 2693 (tel) center@ii-vi.co.jp www.ii-vi.co.jp

Guide.

II-VI Singapore Pte., Ltd. (65) 6481 8215 (tel) info@ii-vi.com.sg

Recommended mounting method: Clamp with uniform

pressure to a flat surface with thermal interface material. For

additional information, please refer to our TEC Installation

Marlow Industries China, II-VI Technologies Beijing 86-10-643 98226 info@iivibj.com

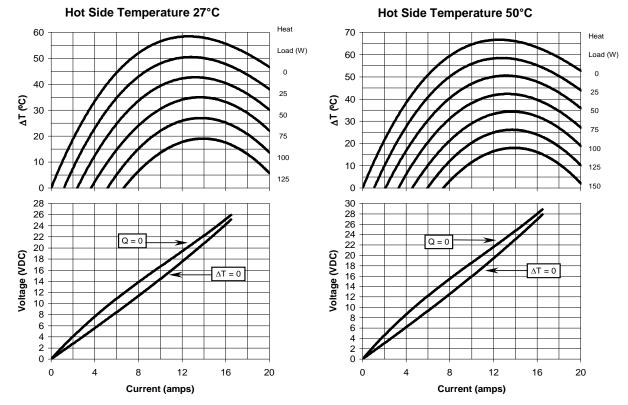
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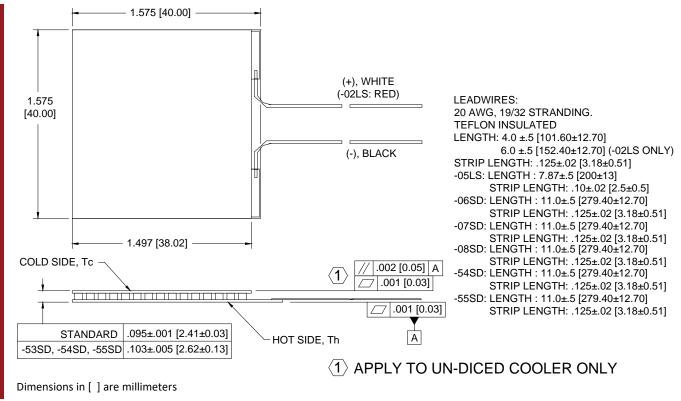
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## **ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN**



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.



For customer support or general questions please contact a local office or visit our website at <a href="https://www.marlow.com">www.marlow.com</a>