



marlow
industries

Subsidiary of II-VI INCORPORATED

a global leader in thermoelectric solutions

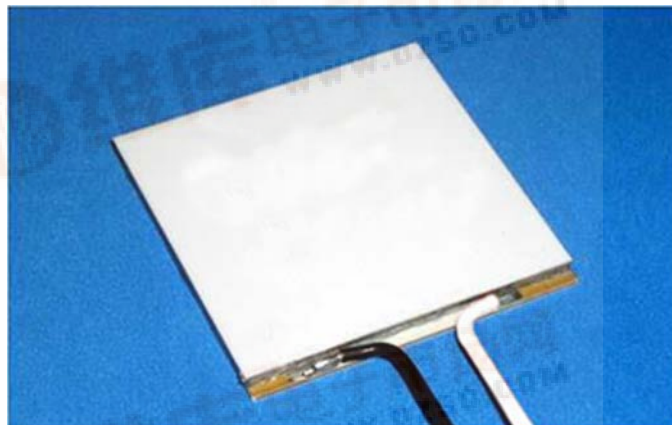
Thermoelectric Cooler- XLT2393

RoHS 2002/95/EC Compliant

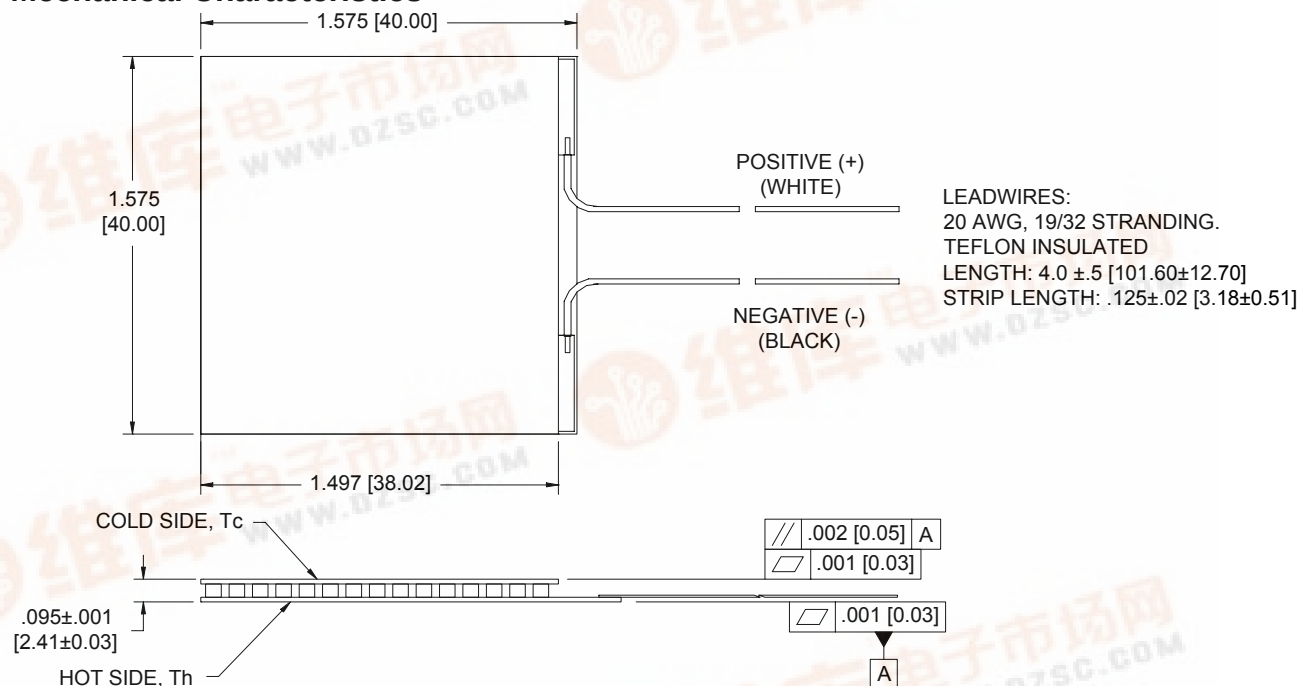
Performance Values

Hot Side Temperature (°C)	27°C	50°C
ΔT_{max} (°C-dry N ₂):	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.



Mechanical Characteristics



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

Features

- RoHS 2002/95/EC Compliant
- Specifically designed for thermal cycling applications
- Capable of rapid heating and cooling rates
- Proven High Reliability (Data available upon request)
- Rugged construction
- Porched configuration for enhanced leadwire strength
- Leadwires attached with 218°C solder
- Rated operating temperature of 200°C
- Height tolerance of ± 0.001 in. (± 0.025 mm) allows for multiple module applications
- RTV Sealing Available



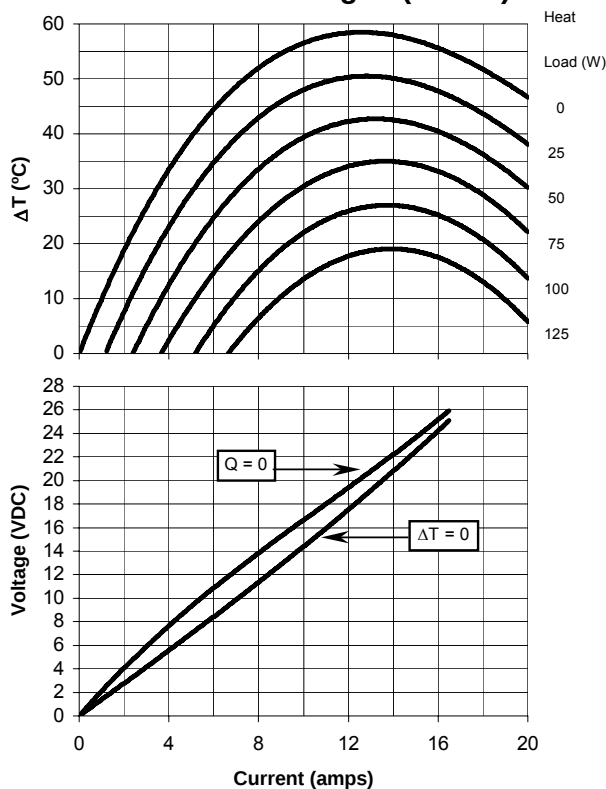
Performance Curves

Environment: One atmosphere dry nitrogen

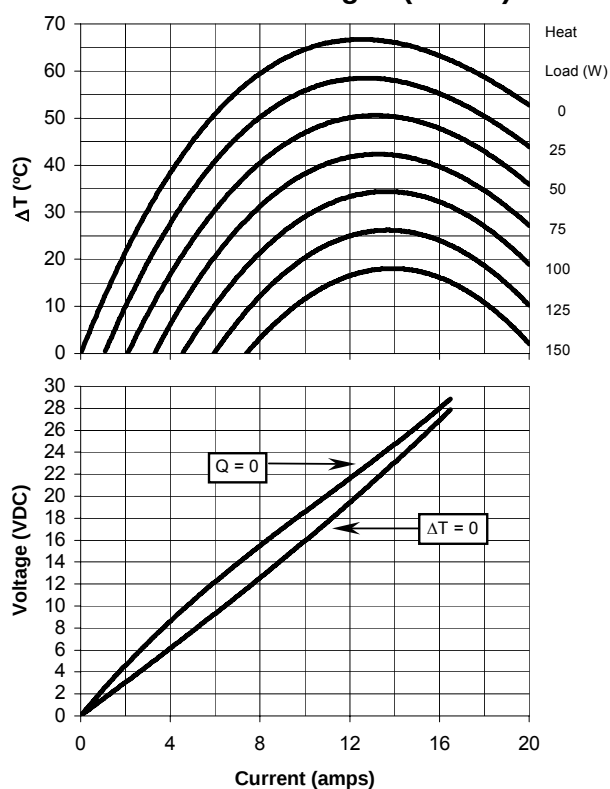
Hot Side Temperature: 27°C

Hot Side Temperature 50°C

T_A = 27°C - Nitrogen (1 ATM)



T_A = 50°C - Nitrogen (1 ATM)



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, consult one of our Applications Engineers.

Installation

XLT coolers are typically mounted under compression using thermal grease or flexible graphite products. Consult Marlow Industries' Thermoelectric Installation Guide for more details. For additional information, please contact one of our application engineers for technical support.

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