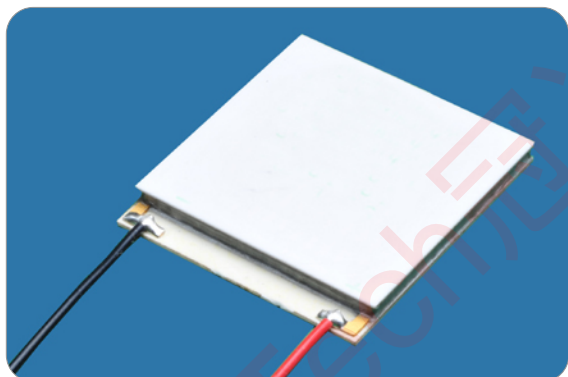




marlow industries, inc.®
 Subsidiary of II-VI INCORPORATED

TECHNICAL DATA SHEET



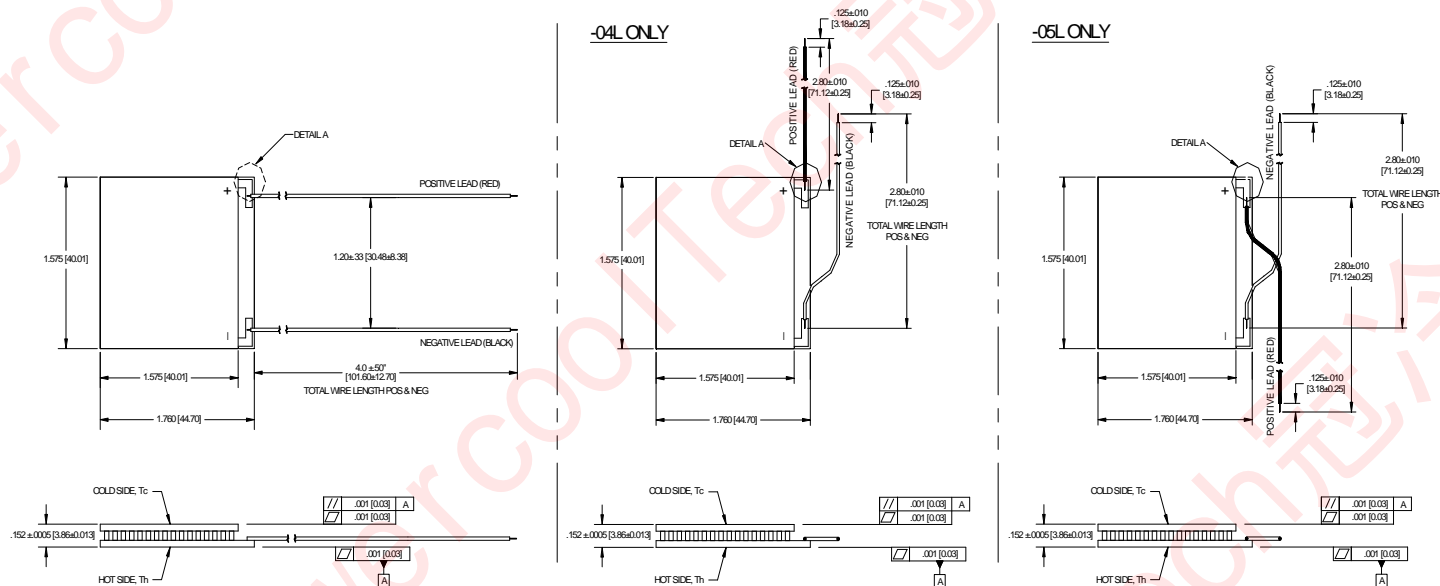
XLT12-6

Single-Stage Thermoelectric Cooler

TYPICAL PERFORMANCE VALUES

| | | |
|----------------------------------|------|------|
| Hot Side Temperature (°C) | 27°C | 50°C |
| Δ Tmax (°C-dry N ₂): | 59 | 67 |
| Qmax (watts): | 52 | 57 |
| Imax (amps): | 5.6 | 5.6 |
| Vmax (vdc): | 14.4 | 16.0 |
| AC Resistance (ohms): | 2.2 | --- |

MECHANICAL CHARACTERISTICS



ORDERING OPTIONS

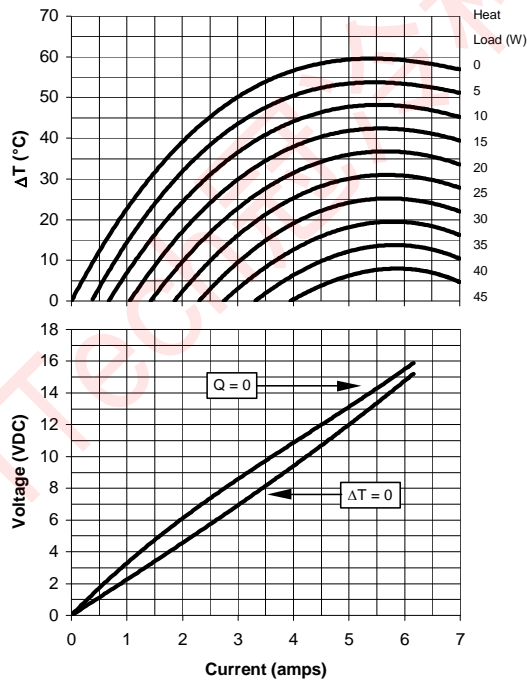
| Model Number | Description |
|--------------|------------------------|
| XLT12-6-00L | Lapped |
| XLT12-6-01L | Lapped, Leadwires |
| XLT12-6-04L | Lapped, 2.8" Leadwires |
| XLT12-6-05L | Lapped, 2.8" Leadwires |

AVAILABLE MODIFICATIONS

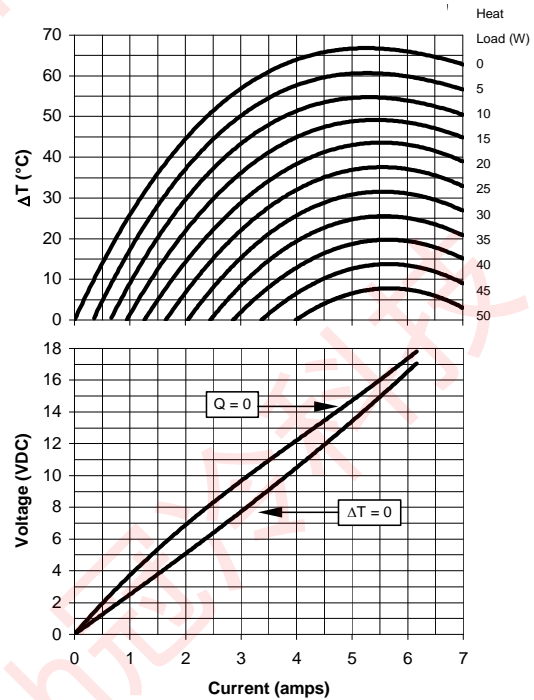
Specifically designed for thermal cycling applications. Capable of rapid heating and cooling rates. Proven High Reliability (Data available upon request). Rugged construction. Porched configuration for enhanced leadwire strength. Leadwires attached with 183°C solder. Rated operating temperature of 130°C. Height tolerance of ± 0.001 in. (± 0.03 mm) allows for multiple module applications. Modules with matched AC Resistance available (Optional).

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

Hot Side Temperature 27°C



Hot Side Temperature 50°C



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.

CONTACT US:

For customer support or general questions please contact a local office below or consult our website for distributor information.

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