

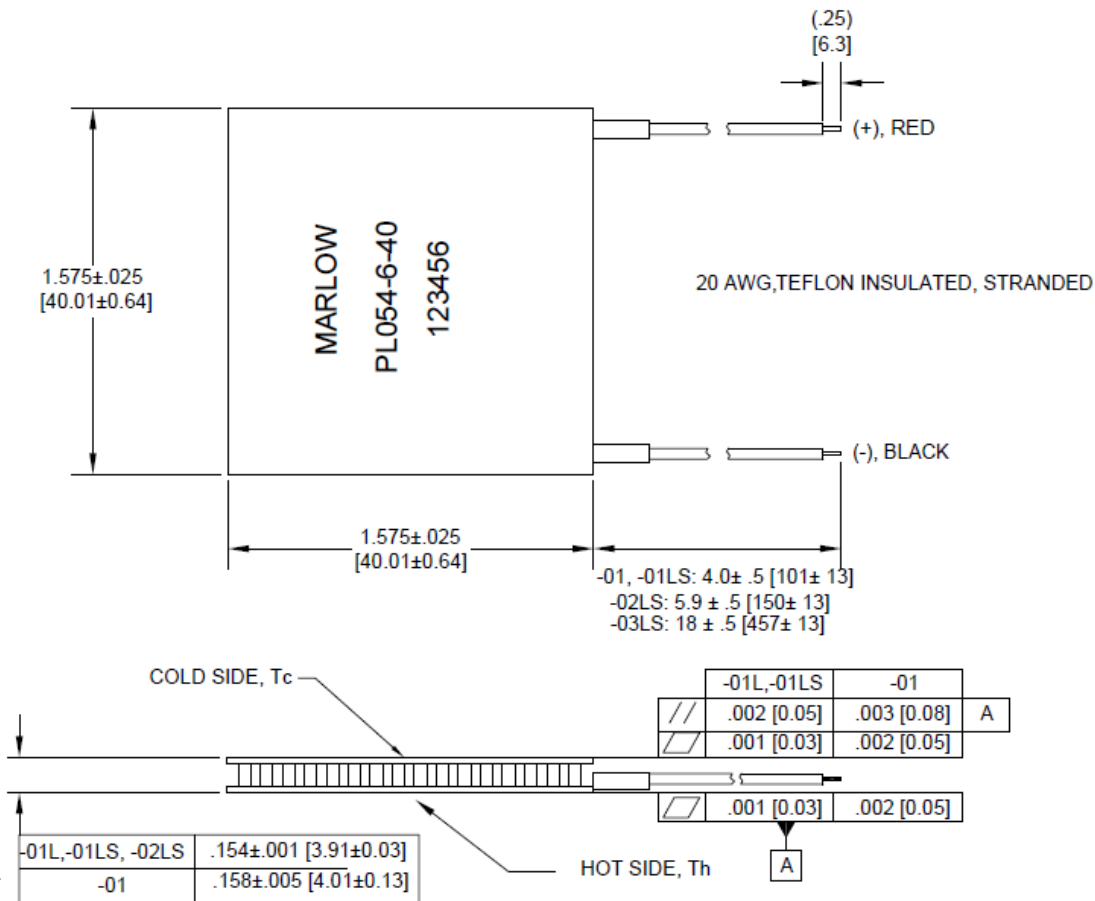
PL054-6-40

Single-Stage Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

| | | |
|----------------------------------|------|------|
| Hot Side Temperature (°C) | 27°C | 50°C |
| Δ Tmax (°C-dry N ₂): | 66 | 76 |
| Qmax (watts): | 54 | 59 |
| I _{max} (amps): | 6.0 | 5.9 |
| V _{max} (vdc): | 14.7 | 16.4 |
| AC Resistance (ohms): | 2.24 | --- |

MECHANICAL CHARACTERISTICS



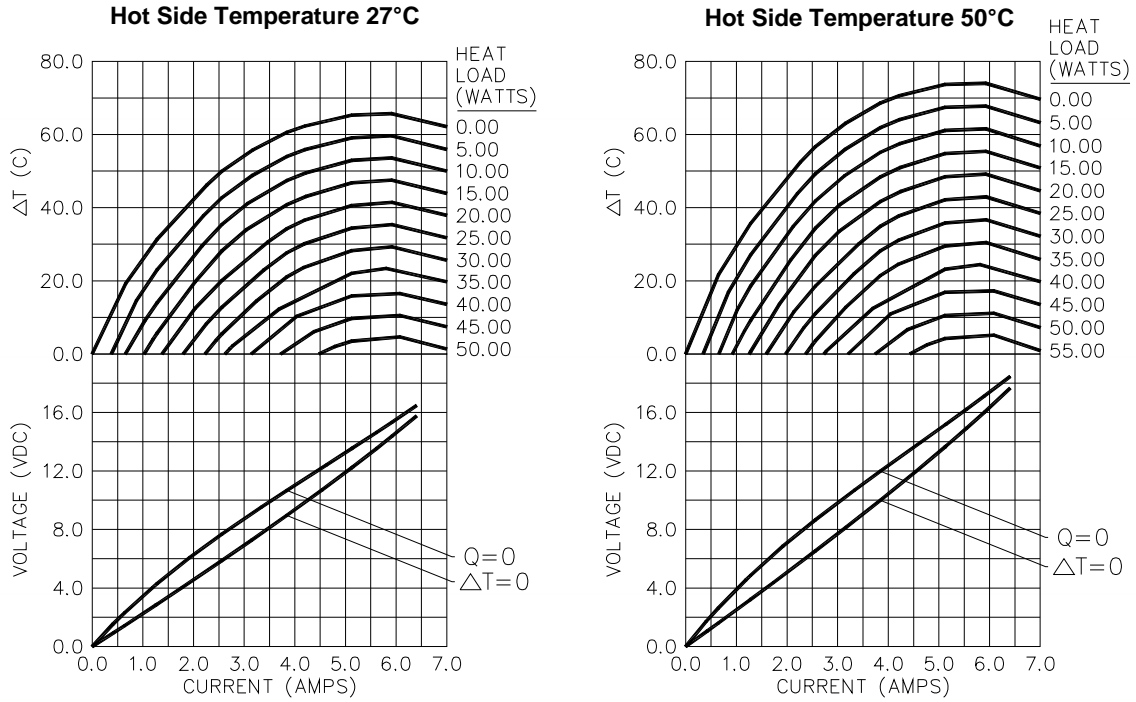
ORDERING OPTIONS

| Model Number | Description |
|-----------------|------------------------------------|
| PL054-6-40-01 | 4 Inch Leadwires |
| PL054-6-40-01L | 4 Inch Leadwires, Lapped. |
| PL054-6-40-01LS | 4 Inch Leadwires, Lapped, Sealed. |
| PL054-6-40-02LS | 6 Inch Leadwires, Lapped, Sealed. |
| PL054-6-40-03LS | 18 Inch Leadwires, Lapped, Sealed. |

PRODUCT FEATURES

- Rated operating temperature of 130°C.
- Superior nickel diffusion barriers on elements.
- High strength for rugged environment.
- RTV sealing option available.
- Lapped option available for multiple module applications.

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 methods: Clamp with uniform pressure to a flat surface with thermal interface. For additional information, please refer to our TEC installation Guide.

Operation Cautions

For maximum reliability, storage and operation below 85°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.

Marlow Industries, Inc.
 10451 Vista Park Road
 Dallas Texas 75238-1645
 214-340-4900 (tel)
 214-341-5212 (fax)
 877-627-5691 (tech support)
www.marlow.com

Marlow Industries Europe GmbH
 Brunnenweg 19-21
 64331 Weiterstadt
 Germany
 Tel.: +49 (0) 6150 5439 - 403
 Fax: +49 (0) 6150 5439 - 400
 info@marlow-europe.eu

II-VI Japan Inc.
 WBG Marive East 17F
 2-6 Nakase, Mihama-ku
 Chiba-Shi, Chiba 261-7117
 Japan
 81 43 297 2693 (tel)
 81 43 297 3003 (fax)
 center@ii-vi.co.jp
 www.ii-vi.co.jp

II-VI Singapore Pte., Ltd.
 Blk. 5012, Techplace II
 #04-07 & 05-07/12, Ang Mo Kio Ave. 5
 Singapore 569876
 (65) 6481 8215 (tel)
 (65) 6481 8702 (fax)
 info@ii-vi.com.sg
 www.ii-vi.com.sg

Marlow Industries China, II-VI
 Technologies Beijing
 A subsidiary of II-VI Incorporated
 Rm 202, 1# Lize 2nd Middle Road
 Wangjing, Chaoyang District
 Beijing 100102 China
 010-64398226 ext 105 (tel)
 010-64399315 (fax)
 info@iivibj.com