



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

TECHNICAL DATA SHEET



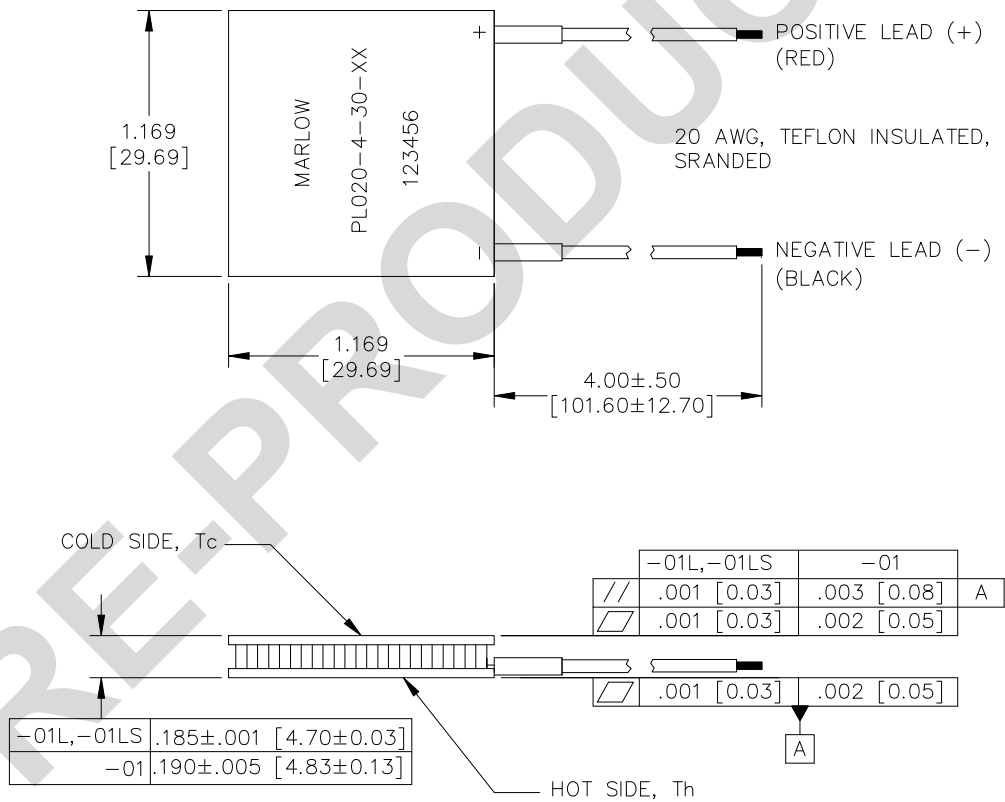
PL020-4-30

Single-Stage Thermoelectric Cooler
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

| | | |
|--|------|------|
| Hot Side Temperature (°C) | 27°C | 50°C |
| ΔT_{max} (°C-dry N ₂): | 65 | 73 |
| Q _{max} (watts): | 20.7 | 22.8 |
| I _{max} (amps): | 3.9 | 3.8 |
| V _{max} (vdc): | 8.20 | 9.10 |
| AC Resistance (ohms): | 1.80 | |

MECHANICAL CHARACTERISTICS



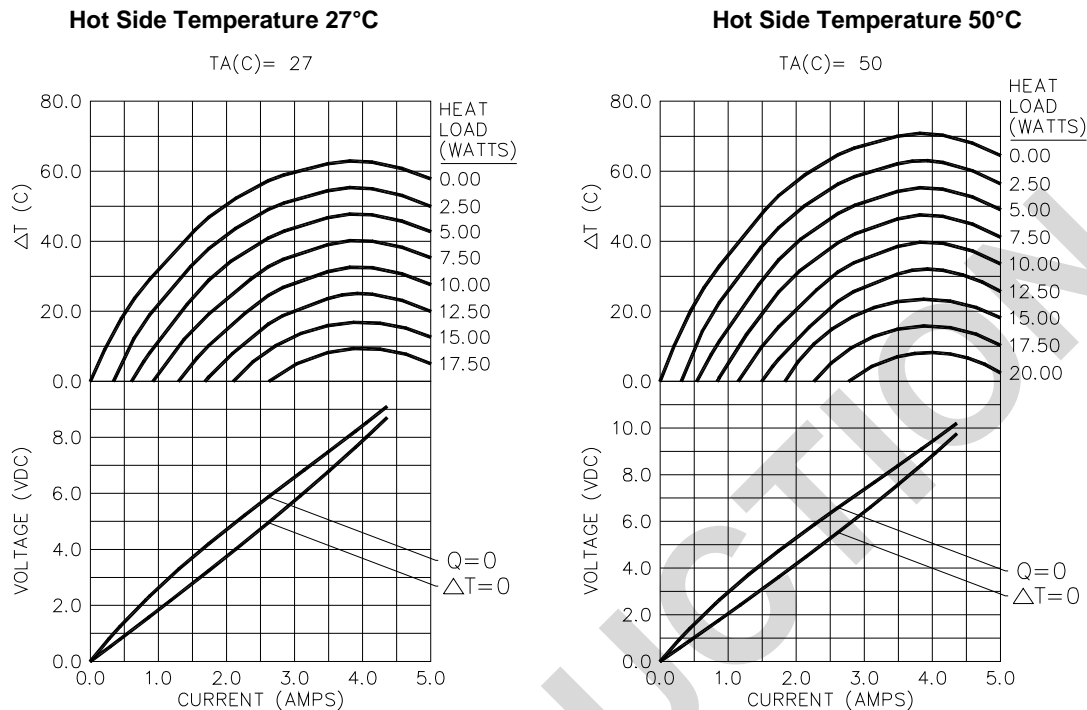
ORDERING OPTIONS

| Model Number | Description |
|-----------------|---------------------------|
| PL020-4-30-01 | Leadwires |
| PL020-4-30-01L | Leadwires, Lapped |
| PL020-4-30-01LS | Leadwires, Lapped, Sealed |

AVAILABLE MODIFICATIONS

Solid-state reliability.
Built with 218°C solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C). Higher temperature must be verified in customer application.
Superior nickel diffusion barriers on elements.
High strength for rugged environment.
RTV sealing available (Optional).
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, consult one of our Applications Engineers.

Installation

Recommended mounting methods: Under compression with flexible thermal interface. For additional information, please contact an application engineer.

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 consult our website for distributor information.

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