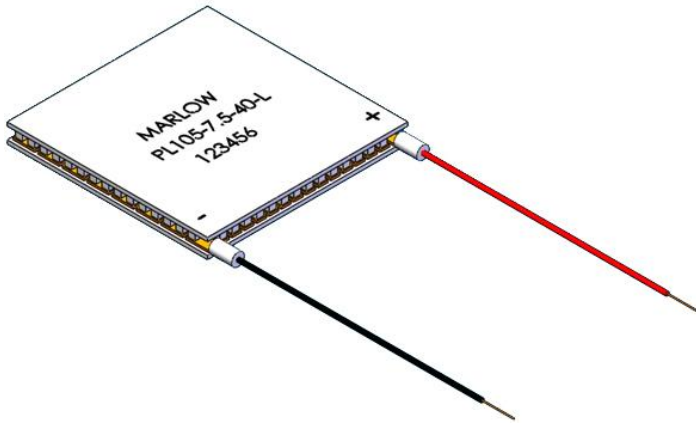




Technical Data Sheet for PL105-7.5-40

Single-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

| | | |
|---------------------------|------|------|
| Hot Side Temperature (°C) | 27 | 50 |
| ΔT_{max} (°C): | 60 | 68 |
| Q _{max} (watts): | 105 | 116 |
| I _{max} (amps): | 7.6 | 7.5 |
| V _{max} (vdc): | 21.2 | 23.5 |
| AC Resistance (ohms): | 2.3 | -- |

PRODUCT FEATURES

- RoHS EU Compliant
- Rated operating temperature of 130°C.
- Ceramic Material: Aluminum Oxide
- Porchless configuration for reduced footprint.
- Superior nickel diffusion barriers on elements
- High strength for rugged environment
- RTV sealing option available
- Lapped option available for multiple module applications

ORDERING OPTIONS

| Model Number | Description |
|-------------------|---------------------------|
| PL105-7.5-40-01 | Leadwires |
| PL105-7.5-40-01L | Leadwires, Lapped |
| PL105-7.5-40-01S | Leadwires, Sealed |
| PL105-7.5-40-01LS | Leadwires, Lapped, Sealed |

OPERATION CAUTIONS

For maximum reliability, storage and operation below 130°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.

INSTALLATION

Recommended mounting method: Clamp with uniform pressure to a flat surface with thermal interface material. For additional information, please refer to our TEM Installation Guide.

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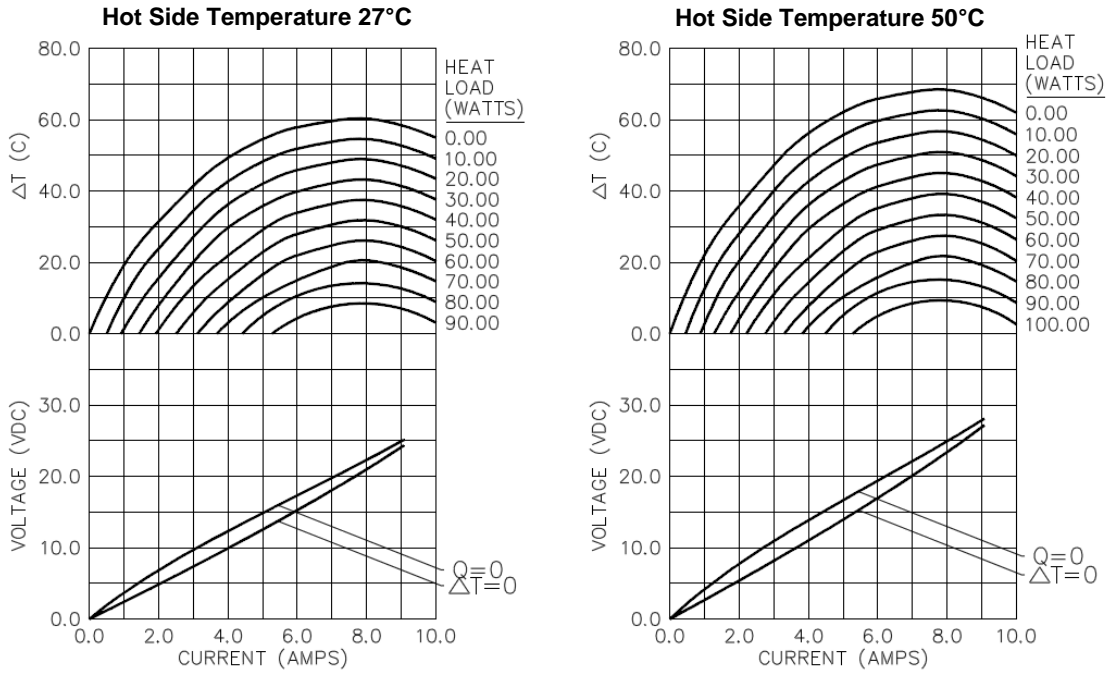
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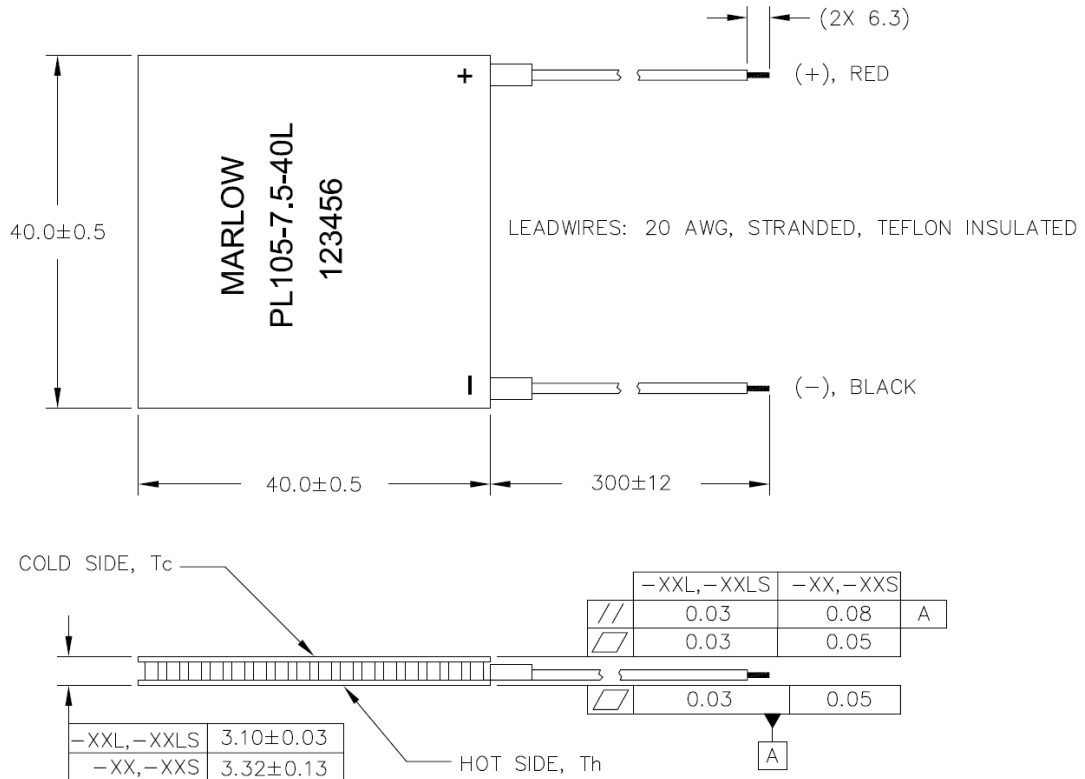
TYPICAL PERFORMANCE CURVES

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.

MECHANICAL CHARACTERISTICS



All units are in millimeters unless otherwise stated.

For customer support or general questions please contact a local office or visit our website at www.marlow.com.
Marlow reserves the right to make product changes without notice.