



# Technical Data Sheet for PL054-6-40

## Single-Stage Thermoelectric Module



### NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	50
$\Delta T_{max}$ (°C):	66	76
Q <sub>max</sub> (watts):	54	59
I <sub>max</sub> (amps):	6.0	5.9
V <sub>max</sub> (vdc):	14.7	16.4
AC Resistance (ohms):	2.24	---

### 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
PL054-6-40-01	101mm Leadwires
PL054-6-40-01L	101mm Leadwires, Lapped
PL054-6-40-01LS	101mm Leadwires, Lapped, Sealed
PL054-6-40-02LS	150mm Leadwires, Lapped, Sealed
PL054-6-40-03LS	457mm 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 methods: Clamp with uniform pressure to a flat surface with thermal interface. For additional information, please refer to our TEM installation Guide.

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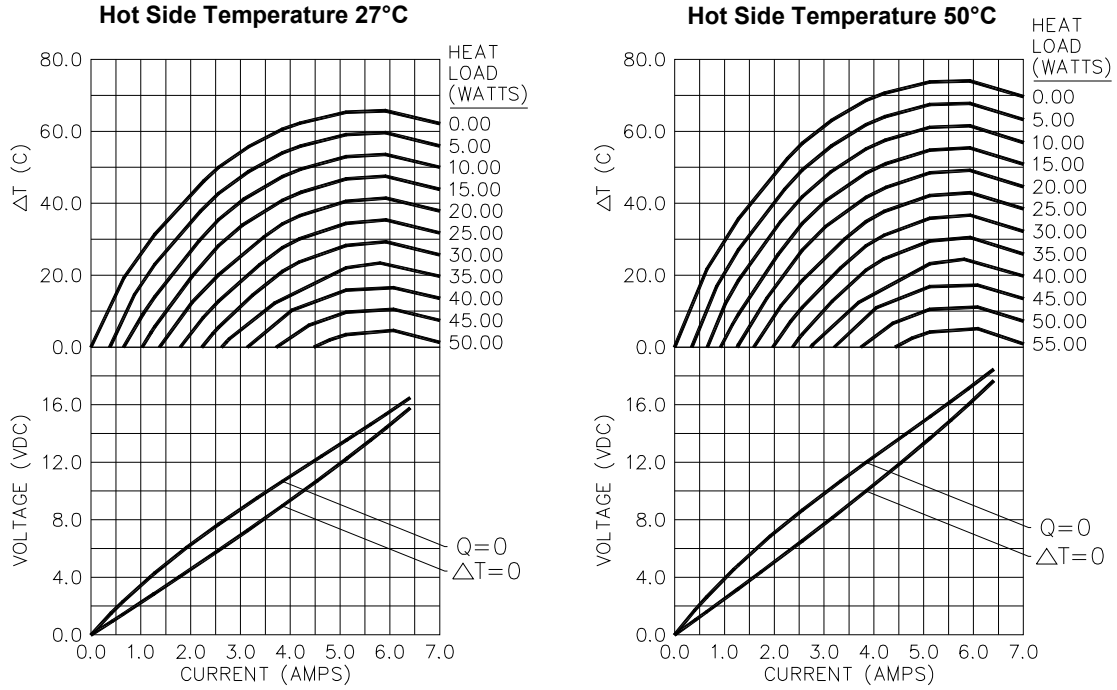
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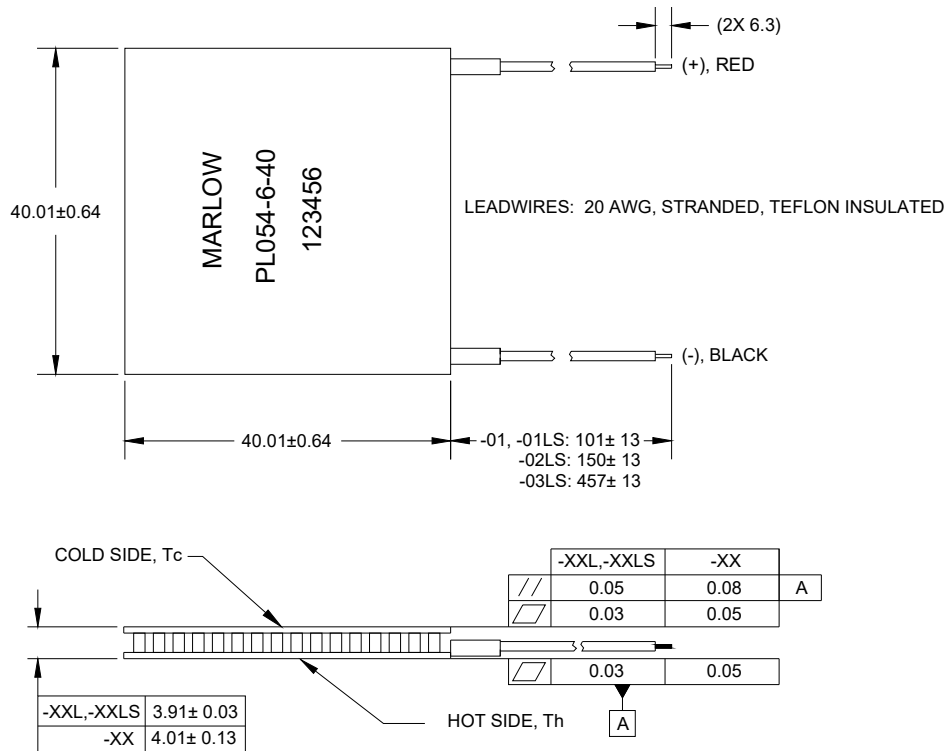
TYPICAL PERFORMANCE CURVES

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](http://www.marlow.com).  
Marlow reserves the right to make product changes without notice.