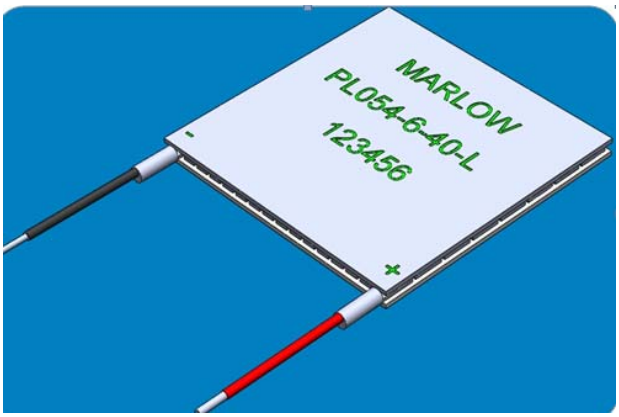
TECHNICAL DATA SHEET



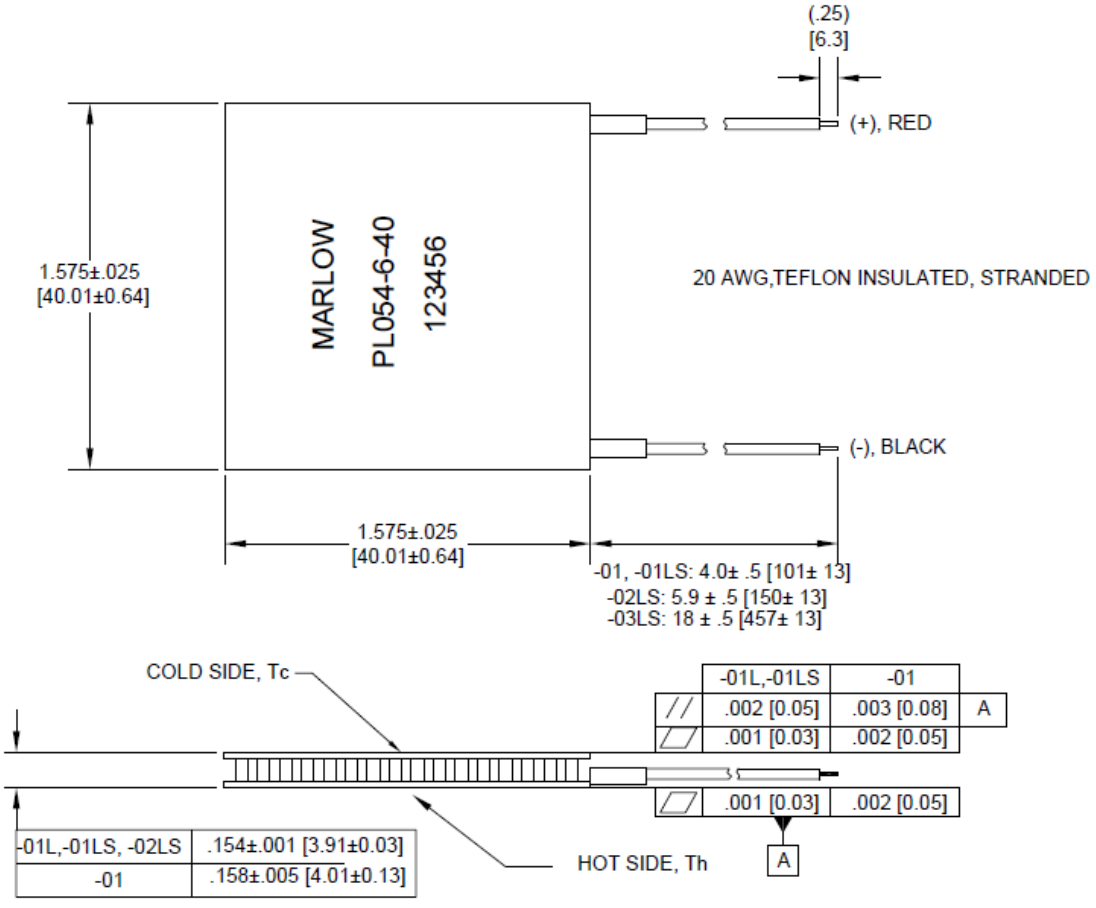
PL054-6-40

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
Imax (amps):	6.0	5.9
Vmax (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.

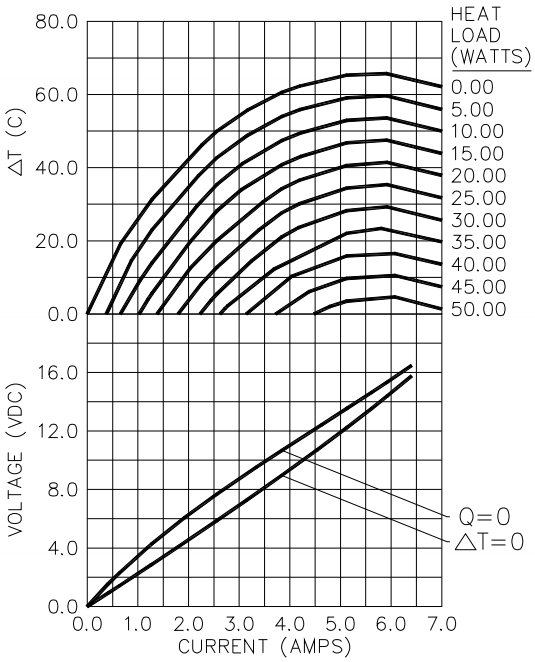
PRODUCT FEATURES

- 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.

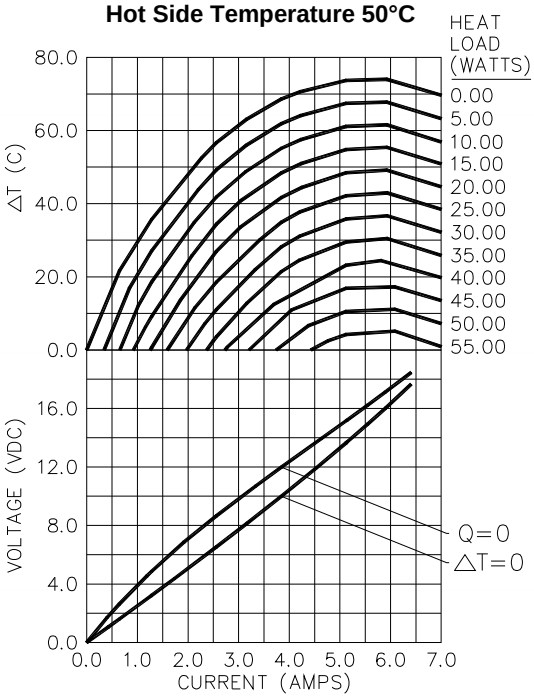
TYPICAL PERFORMANCE CURVES

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, 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.

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