



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



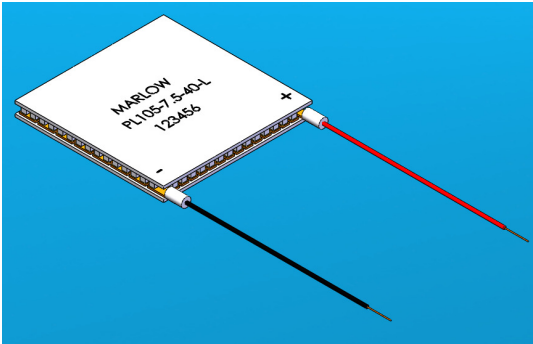
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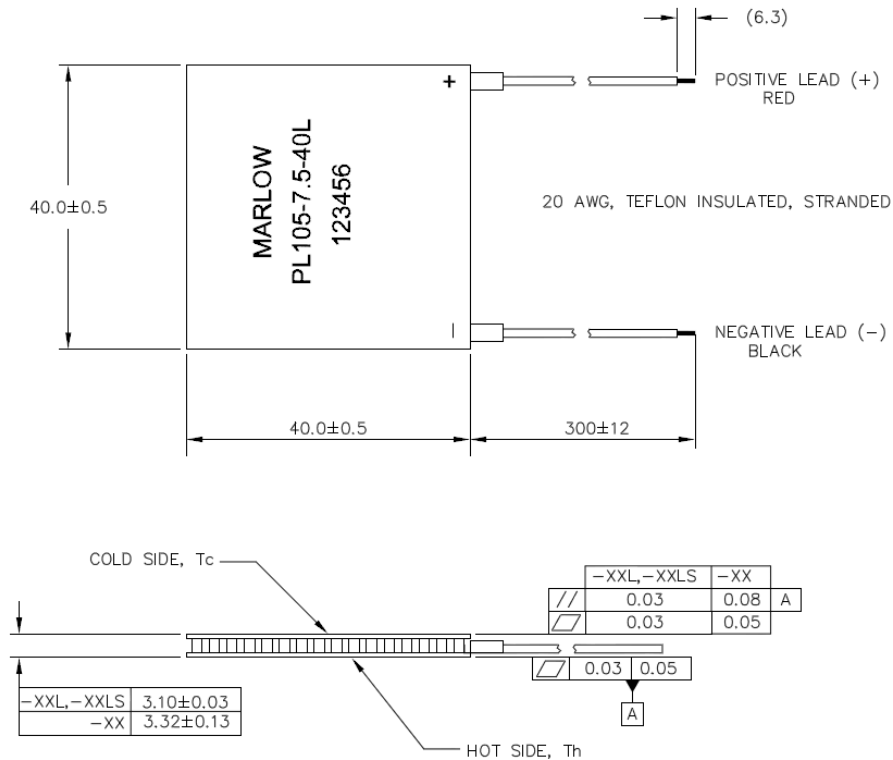
PL105-7.5-40

Single-Stage Thermoelectric Module
RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27	50
ΔT_{max} (°C-dry N ₂):	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	

MECHANICAL CHARACTERISTICS



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

PRODUCT FEATURES

- Rated operating temperature 160°C for short periods, 130°C extended operation
- Superior nickel diffusion barriers on elements
- High strength for rugged environment
- RTV sealing option available
- Lapped option available for multiple module applications

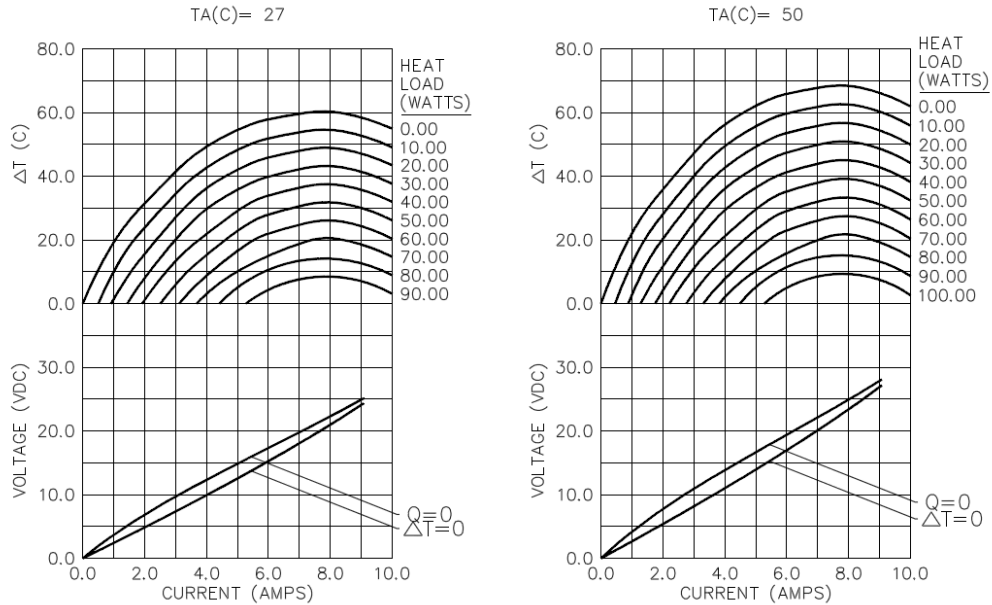
For customer support or general questions please contact a local office or visit our website at www.marlow.com.

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

Hot Side Temperature 27°C

Hot Side Temperature 50°C

TYPICAL PERFORMANCE CURVES
NITROGEN (1 ATM)



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 method: Clamp with uniform pressure to a flat surface with thermal interface material. 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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