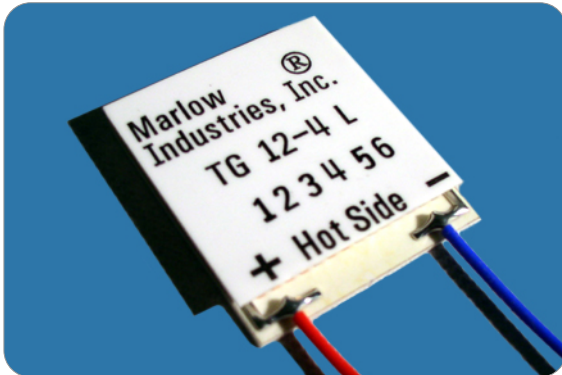


marlow industries, inc.®
Subsidiary of II-VI INCORPORATED



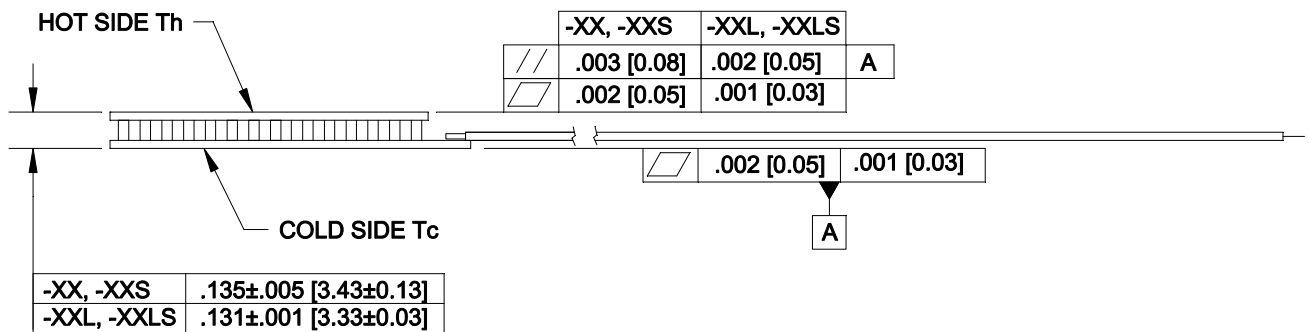
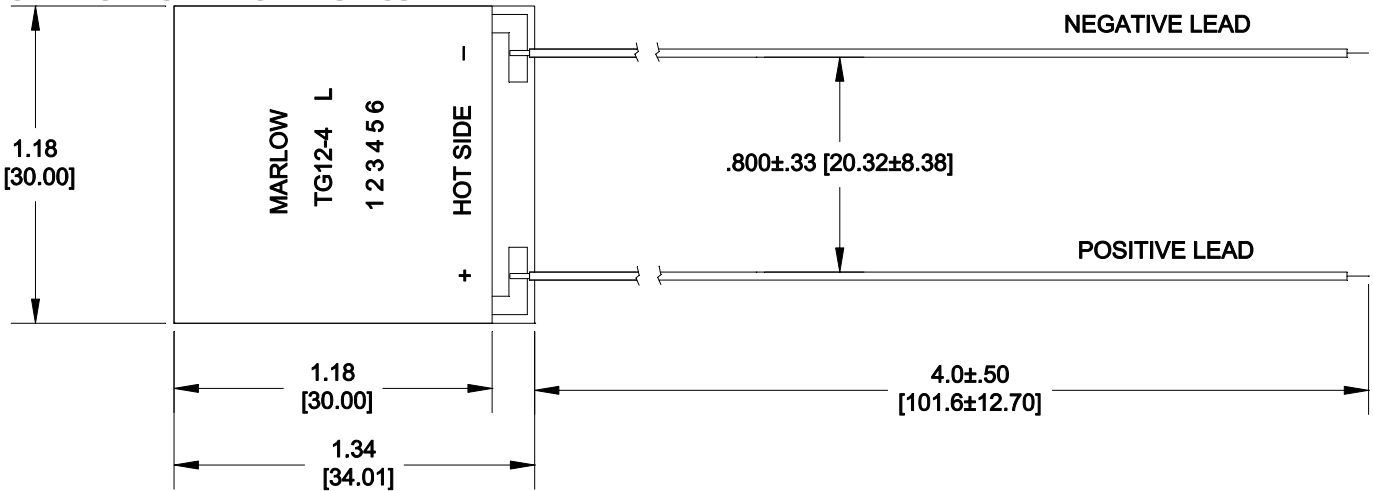
TG12-4

Thermoelectric Generator

TYPICAL PERFORMANCE VALUES

T _c (°C)	27 ± 2
ACR (Ω)	2.76 - 3.41
Device ZT _c	0.71

MECHANICAL CHARACTERISTICS



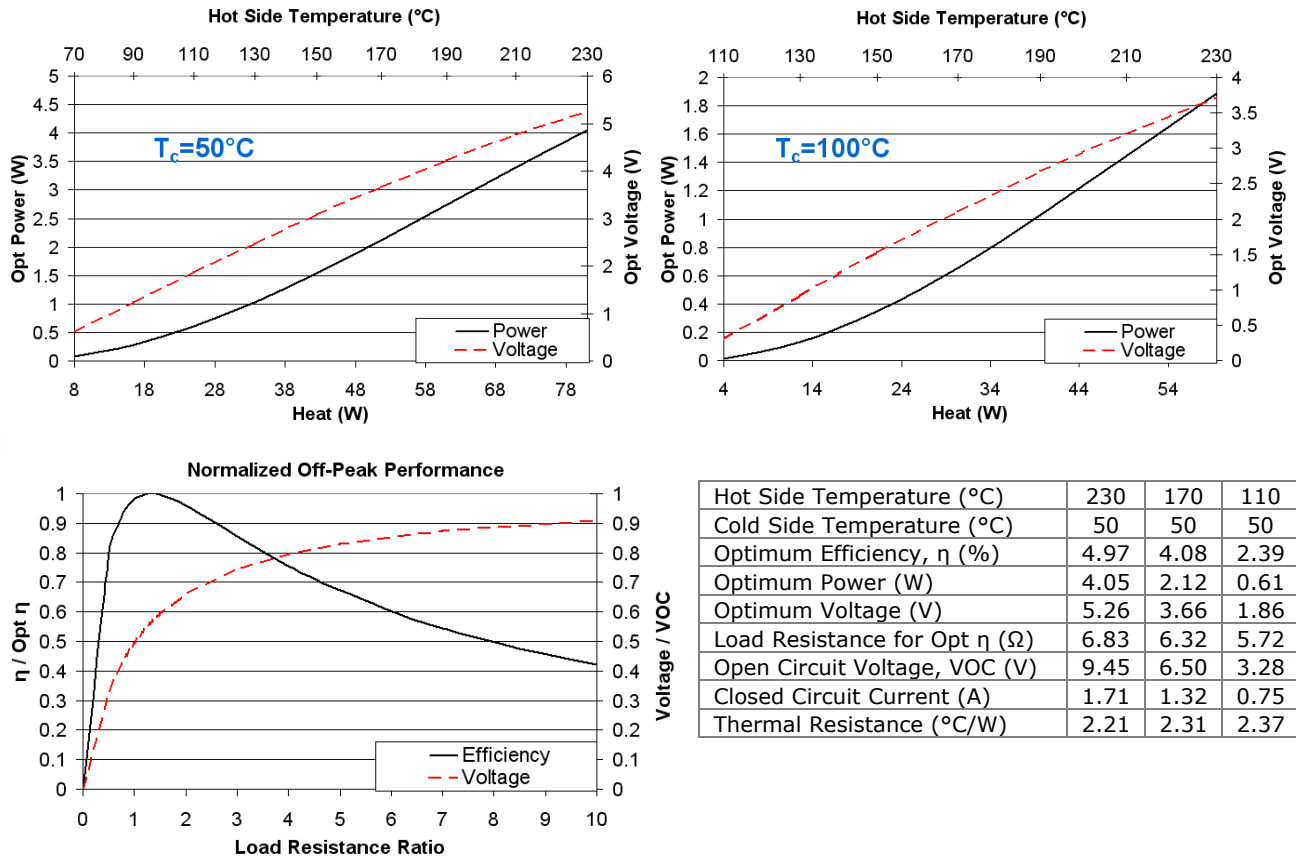
ORDERING OPTIONS

Model Number	Description
TG12-4-01	Cooler, No Lapping, No Seal
TG12-4-01L	Cooler, Lapped Model, No Seal
TG12-4-01S	Cooler, Sealed Model, No Lapping
TG12-4-01LS	Cooler, Lapped and Sealed Model
TG12-4-01LSG	Cooler, Lapped, Sealed, and Graphite Interface Pads

AVAILABLE MODIFICATIONS

Non-standard cooler wiring; red lead wire is positive and blue lead wire is negative.
For more modification information, consult one of our Applications Engineers.

TYPICAL PERFORMANCE CURVES



Performance information is given in a nitrogen environment and cold side temperatures of 50°C and 100°C. TG device temperature does not include thermal resistance of heat sinks, Thermal Interface Materials (TIM) such as graphite pads or thermal greases, and various clamping techniques. Hot side and cold side temperatures represent the temperatures of the hot and cold ceramics on the module. For performance information in vacuum, other cold side temperatures, or specific heat sinks and TIM materials, consult one of our applications engineers.

Installation

Recommended mounting methods: Recommended mounting pressure under compression is 200 psi with thermal grease or flexible graphite pads. For additional information, please contact an applications engineer.

Operation Cautions

For maximum reliability, continuous operation below 200°C (cold side and hot side) is recommended. Intermittent operation up to 230°C on the hot side of the TG is permissible.

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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