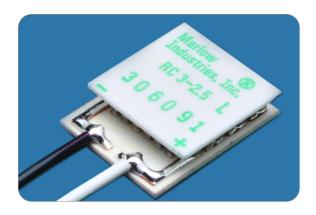


TECHNICAL DATA SHEET



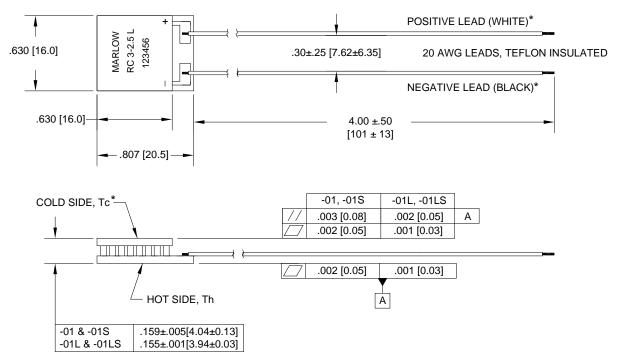
RC3-2.5

Single-Stage Thermoelectric Module RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N_2):	65	73
Qmax (watts):	6	6
Imax (amps):	2.5	2.5
Vmax (vdc):	3.6	4.1
AC Resistance (ohms):	1.2	
Device ZT	0.76	

MECHANICAL CHARACTERISTICS



Ceramic Material: Alumina (AC)

Dimensions in [] are millimeters

*NOTE: Cold side and positive and negative leads are valid only for thermoelectric cooling. For power generation, refer to page 3.

ORDERING OPTIONS

Model Number Description

RC3-2.5-01 Base Model w/ leads RC3-2.5-01L Lapped Model RC3-2.5-01S Sealed Model

RC3-2.5-01LS Lapped and Sealed Model

AVAILABLE MODIFICATIONS

Solid-state reliability.

Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time ($<160^{\circ}$ C).

Superior nickel diffusion barriers on elements.

High strength for rugged environment.

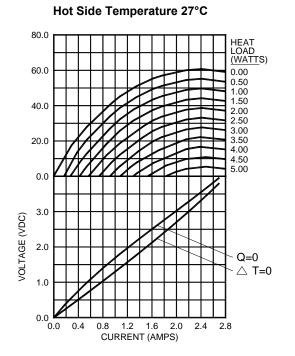
Porched configuration for enhanced leadwire strength.

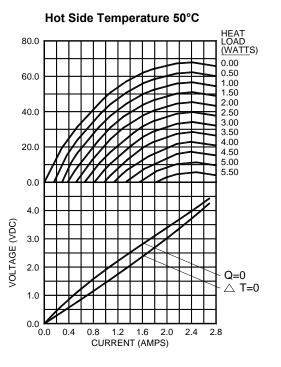
RTV sealing available (Optional).

Lapped option available for multiple module applications.

COOLING 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, consult one of our Applications Engineers.

Installation

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. 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 when operating in cooling mode, use linear/proportional temperature control or a similar method rather than an ON/OFF

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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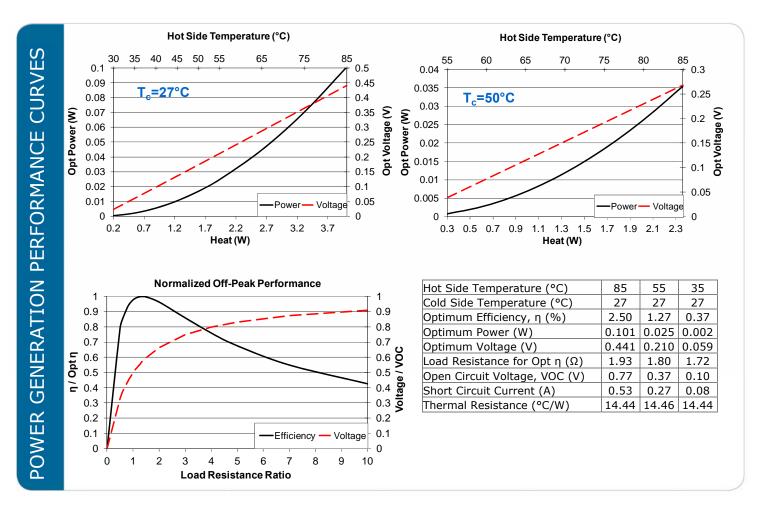
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Power Generation performance information is given in a nitrogen environment and cold side temperatures of 27°C and 50°C. Module temperature does not include thermal resistance of heat sinks. For performance information in vacuum, other cold side temperatures, or specific heat sinks, consult one of our applications engineers.

TYPICAL POWER GENERATION CONFIGURATION

