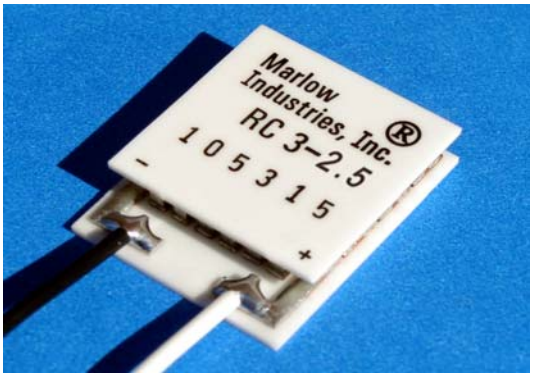
TECHNICAL DATA SHEET

Thermoelectric Cooler RC3-2.5

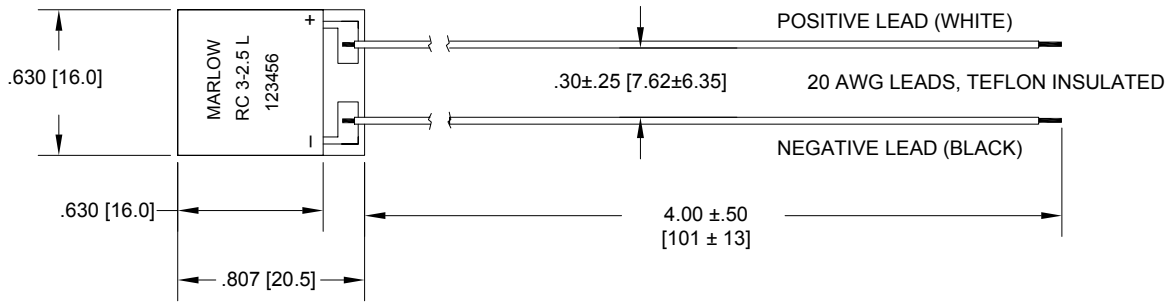
RoHS 2002/95/EC Compliant

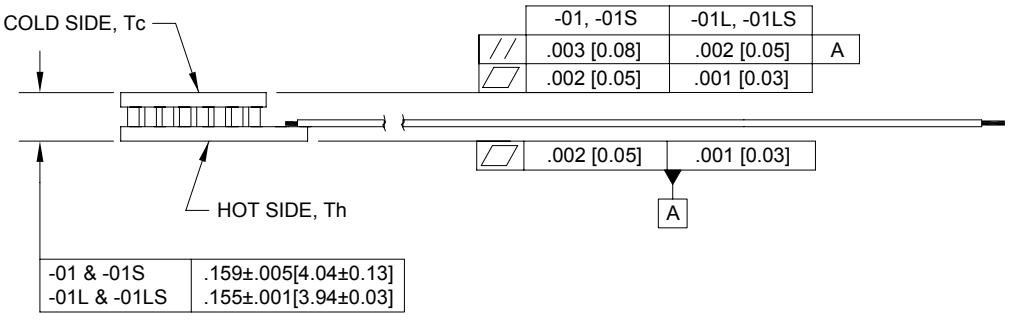
Performance Values

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	---



Mechanical Characteristics





Ceramic Material: Alumina (AC)

Dimensions in [ ] are millimeters

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

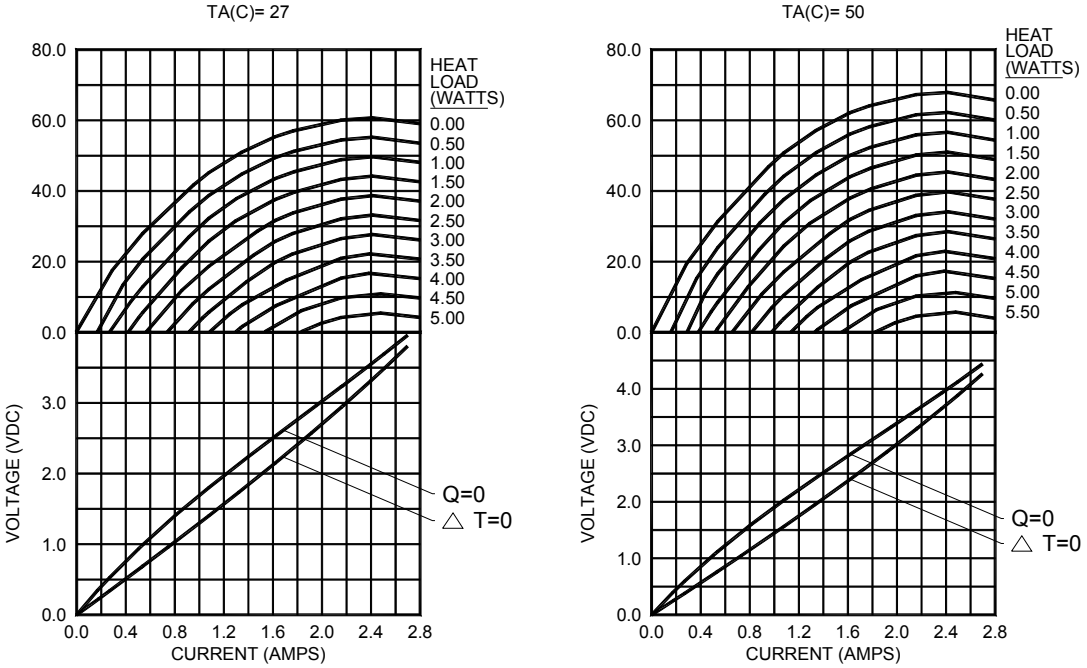
Features

- **RoHS 2002/95/EC compliant**
- Solid-state reliability.
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°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.

TECHNICAL DATA SHEET

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, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

Addresses

Marlow Industries, Inc.
10451 Vista Park Road
Dallas Texas 75238-1645
214-340-4900 (tel)
214-341-5212 (fax)
www.marlow.com

Marlow Industries Europe
Aberdeen House, South Road
Haywards Heath
West Sussex RH164NG UK
+44 (0)1444-443404 (tel)
+44 (0)1444-443334(fax)

Marlow Industries Japan
1-1-8-401
Uehara, Shibuya-ku
Tokyo, Japan 151-0064
+81 (3) 5454-5280 (tel)
+81 (3) 5454-5281(fax)