



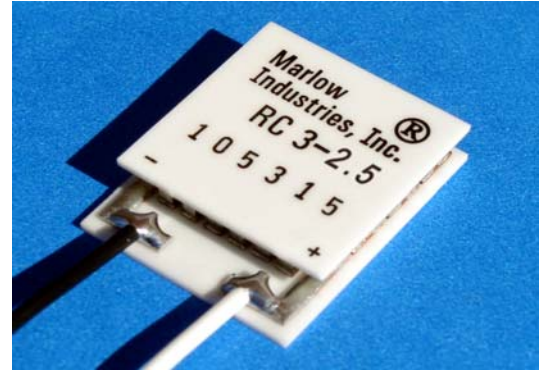
**RoHS 2002/95/EC Compliant**

**Thermoelectric Cooler RC3-2.5**

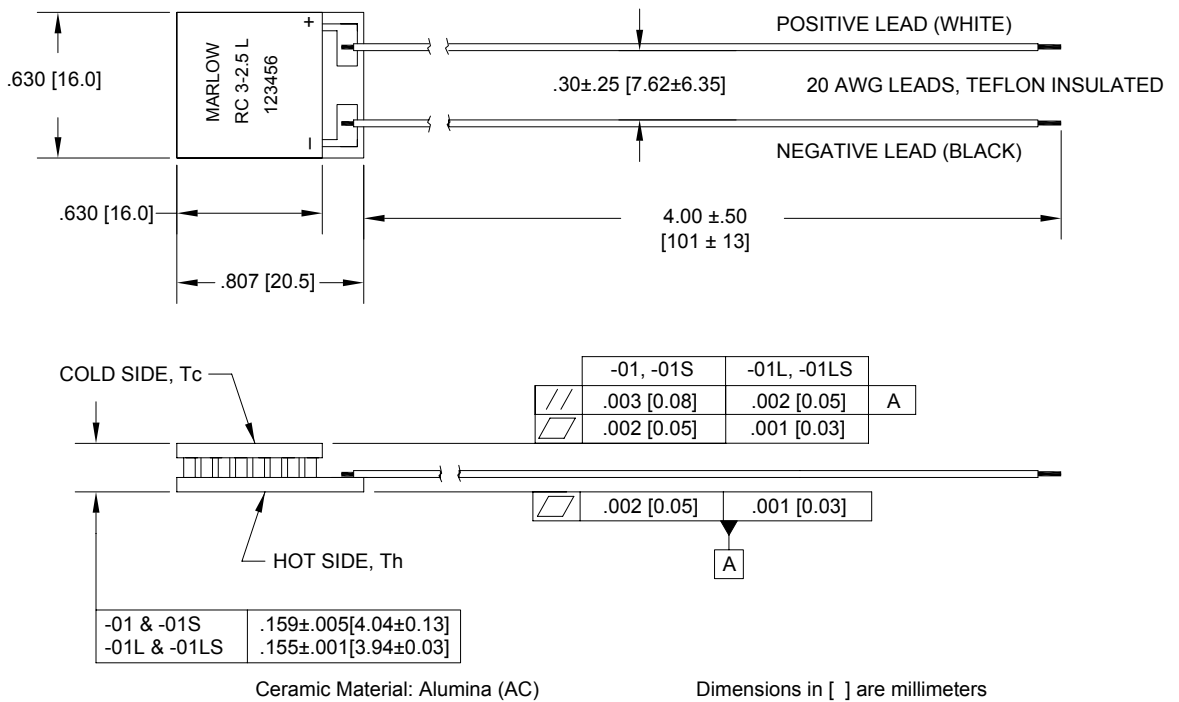
TECHNICAL DATA SHEET

**Performance Values**

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	65	73
Qmax (watts):	6	6
I <sub>max</sub> (amps):	2.5	2.5
V <sub>max</sub> (vdc):	3.6	4.1
AC Resistance (ohms):	1.2	---



**Mechanical Characteristics**



**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

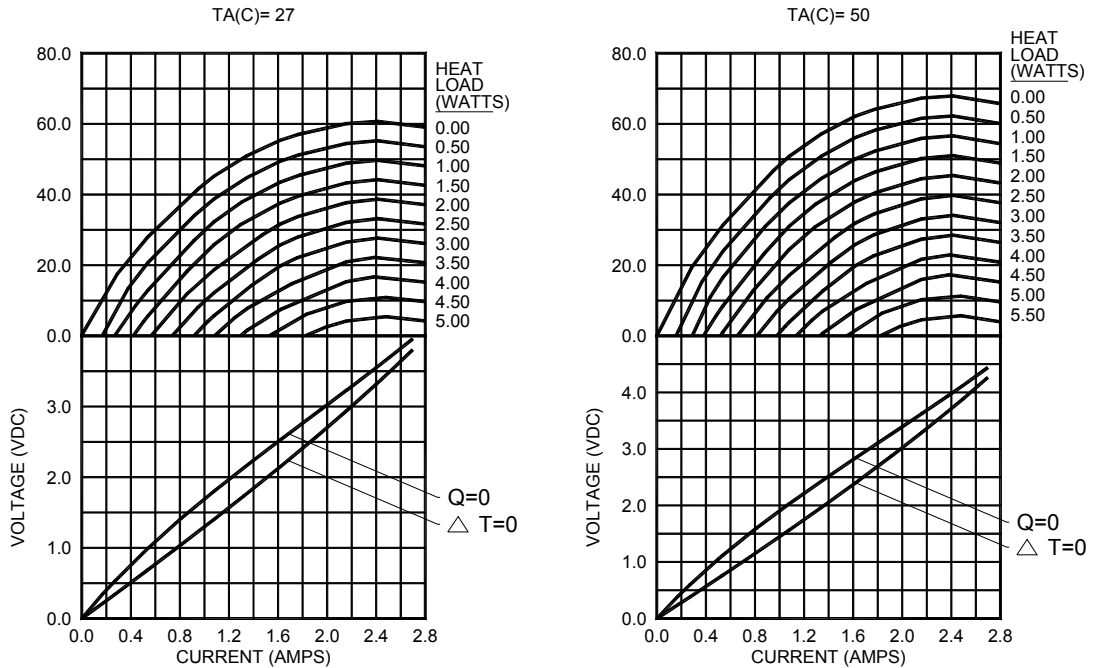
**Features**

- **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.



**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](http://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)