



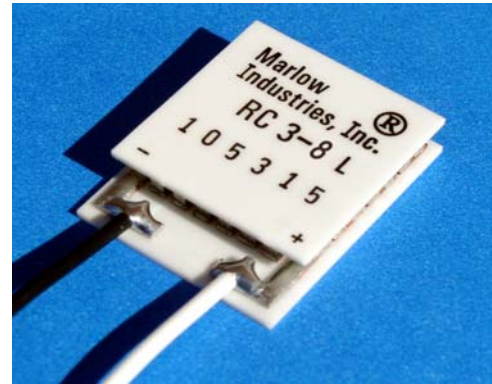
**RoHS 2002/95/EC Compliant**

TECHNICAL DATA SHEET

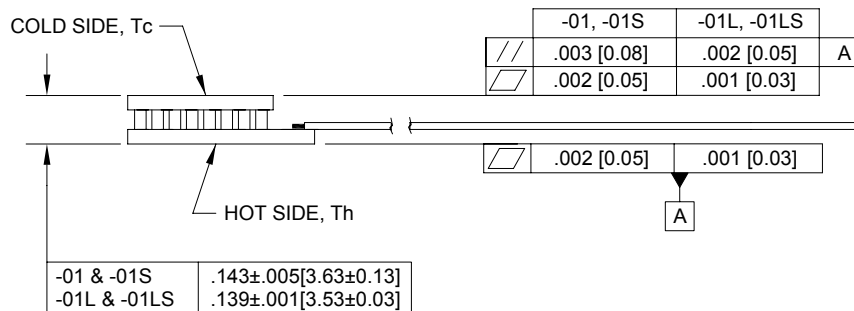
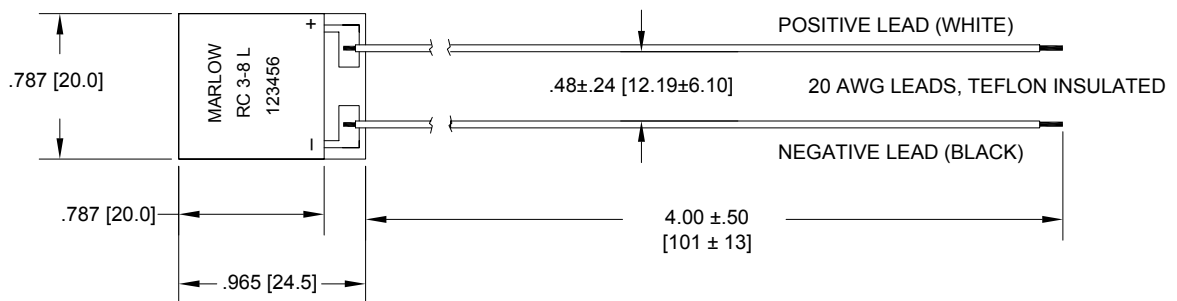
## Thermoelectric Cooler RC3-8

### Performance Values

|                                  |      |      |
|----------------------------------|------|------|
| Hot Side Temperature (°C)        | 27°C | 50°C |
| Δ Tmax (°C-dry N <sub>2</sub> ): | 65   | 73   |
| Qmax (watts):                    | 17   | 19   |
| I <sub>max</sub> (amps):         | 7.4  | 7.4  |
| V <sub>max</sub> (vdc):          | 3.6  | 4.1  |
| AC Resistance (ohms):            | 0.4  | ---  |



### Mechanical Characteristics



Ceramic Material: Alumina (AC)

Dimensions in [ ] are millimeters

### Ordering Options

| Model Number | Description             |
|--------------|-------------------------|
| RC3-8-01     | Base Model w/ leads     |
| RC3-8-01L    | Lapped Model            |
| RC3-8-01S    | Sealed Model            |
| RC3-8-01LS   | 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.

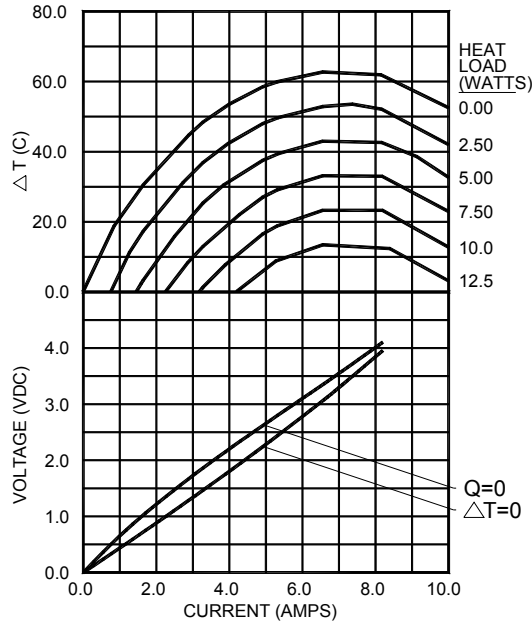


**Performance Curves**

Environment: One atmosphere dry nitrogen

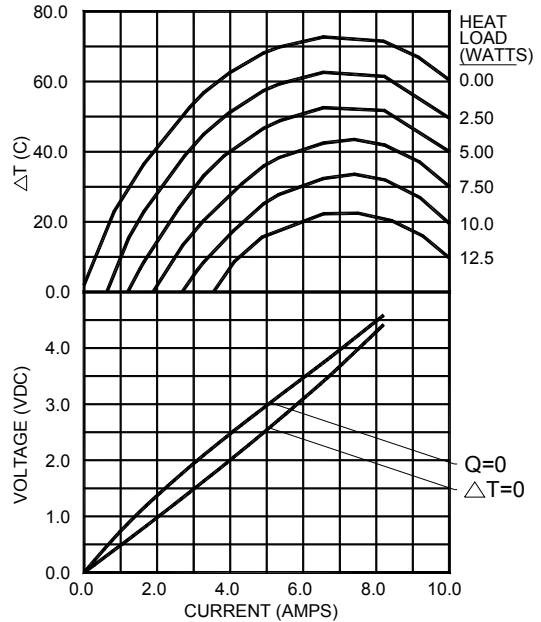
Hot Side Temperature: 27°C

TA(C)= 27



Hot Side Temperature: 50°C

TA(C)= 50



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.

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