



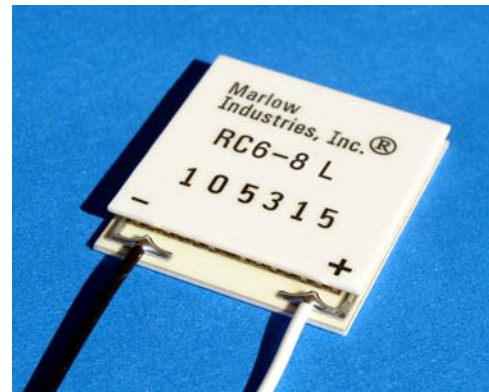
**RoHS 2002/95/EC Compliant**

TECHNICAL DATA SHEET

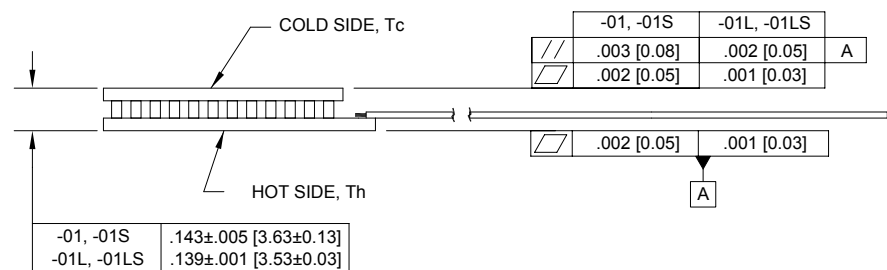
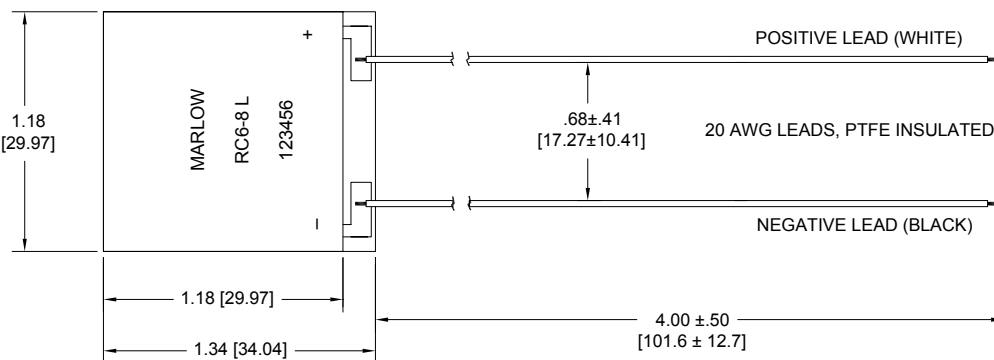
## Thermoelectric Cooler RC6-8

### Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	65	73
Qmax (watts):	39	43
I <sub>max</sub> (amps):	7.4	7.4
V <sub>max</sub> (vdc):	8.2	9.2
AC Resistance (ohms):	0.9	---



### Mechanical Characteristics



Ceramic Material: Alumina (AC)

Dimensions in [ ] are millimeters

### Ordering Options

Model Number	Description
RC6-8-01	Base Model w/ leads
RC6-8-01L	Lapped Model
RC6-8-01S	Sealed Model
RC6-8-01LS	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.

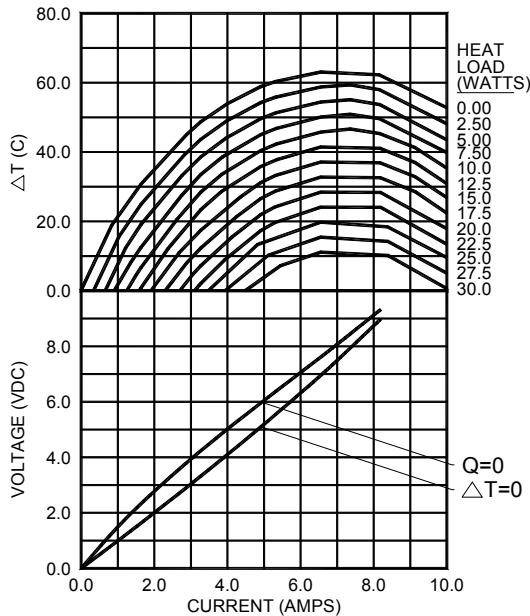


**Performance Curves**

Environment: One atmosphere dry nitrogen

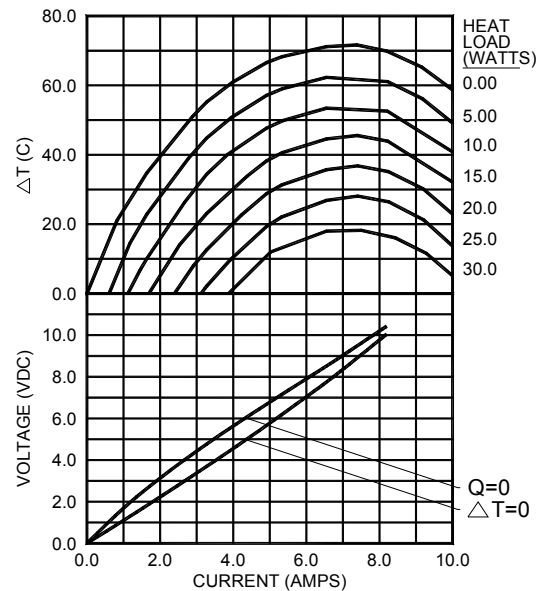
Hot Side Temperature: 27°C

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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