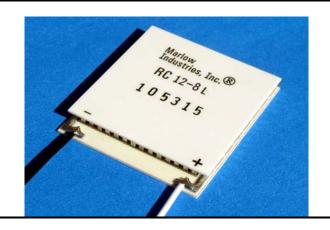


Thermoelectric Cooler RC12-8

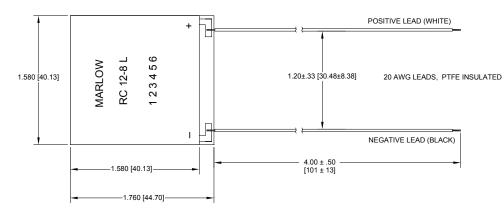
RoHS 2002/95/EC Compliant

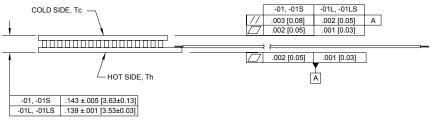
Performance Values

| Hot Side Temperature (°C) | 27°C | 50°C |
|----------------------------------|------|------|
| Δ Tmax (°C-dry N ₂): | 66 | 74 |
| Qmax (watts): | 71 | 78 |
| Imax (amps): | 7.4 | 7.4 |
| Vmax (vdc): | 14.7 | 16.4 |
| AC Resistance (ohms): | 1.6 | |



Mechanical Characteristics





Ceramic Material: Alumina (AC) Dimensions in [] are millimeters

Ordering Options

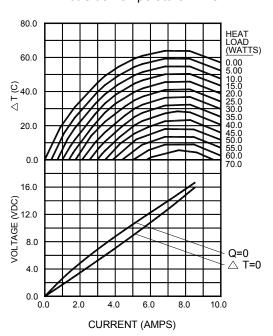
| Model Number | Description |
|--------------|----------------------------|
| RC12-8-01 | Base Model w/ leads |
| RC12-8-01L | Lapped Model |
| RC12-8-01S | Sealed Model |
| RC12-8-01LS | Lapped and Sealed Model |

Features

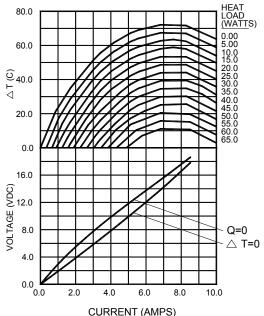
- RoHS 2002/95/EC compliant
- Solid-state reliability.
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C).
- Superior nickel diffusion barriers on elements
- High strength for rugged environment.
- Porched configuration for enhanced leadwire strength
- RTV sealing available (Optional)
- Lapped option available for multiple module applications.

Environment: One atmosphere dry nitrogen

Hot Side Temperature: 27°C



Hot Side Temperature: 50°C



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

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