

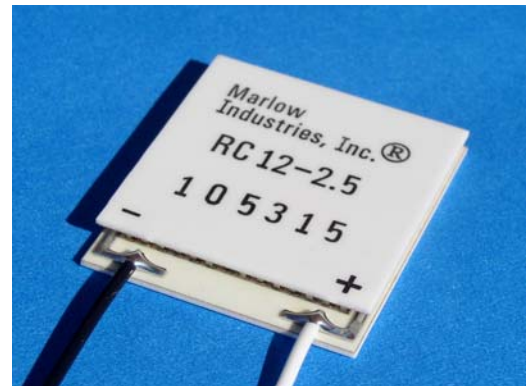


RoHS 2002/95/EC Compliant

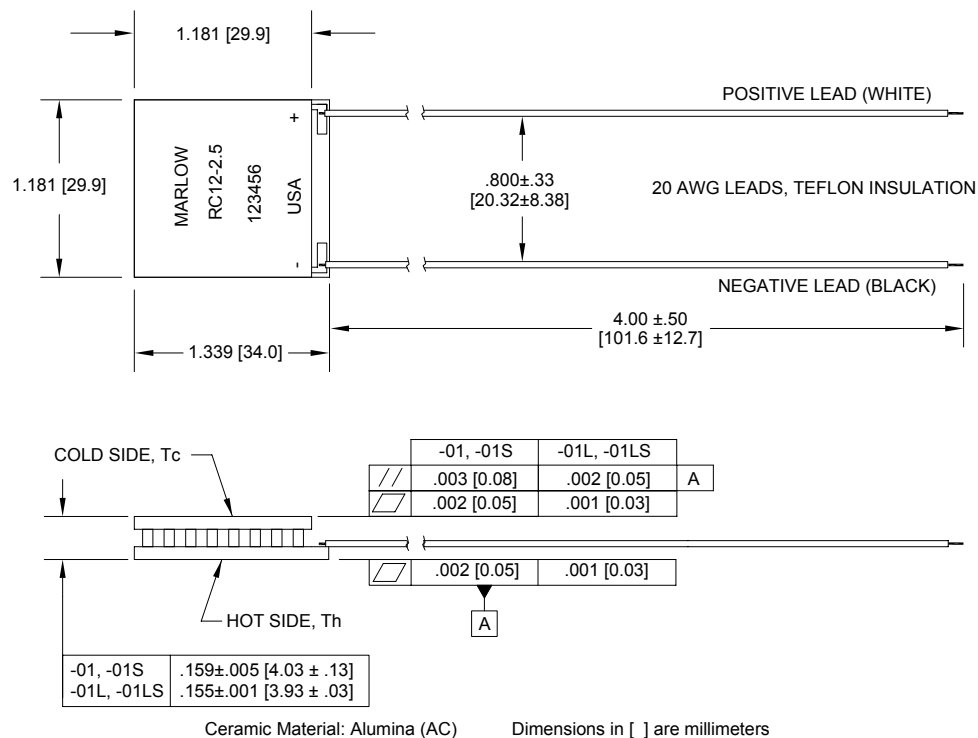
Thermoelectric Cooler RC12-2.5

Performance Values

| | | |
|--|------|------|
| Hot Side Temperature (°C) | 27°C | 50°C |
| ΔT_{max} (°C-dry N ₂): | 66 | 74 |
| Q _{max} (watts): | 23 | 26 |
| I _{max} (amps): | 2.5 | 2.5 |
| V _{max} (vdc): | 14.7 | 16.4 |
| AC Resistance (ohms): | 4.9 | --- |



Mechanical Characteristics



Ordering Options

| Model Number | Description |
|---------------|-------------------------|
| RC12-2.5-01 | Base Model w/ leads |
| RC12-2.5-01L | Lapped Model |
| RC12-2.5-01S | Sealed Model |
| RC12-2.5-01LS | Lapped and Sealed Model |

Features

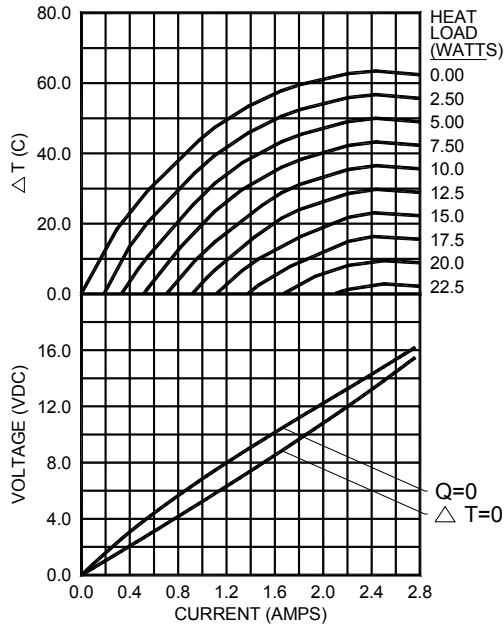
- **RoHS 2002/95/EC compliant**
- Solid-state reliability.
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C).
- Superior nickel diffusion barriers on elements
- High strength for rugged environment.
- Porched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



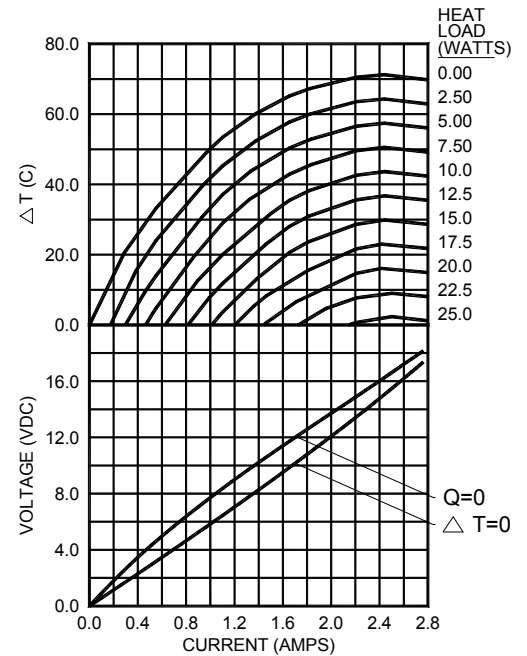
Performance Curves

Environment: One atmosphere dry nitrogen

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.

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