



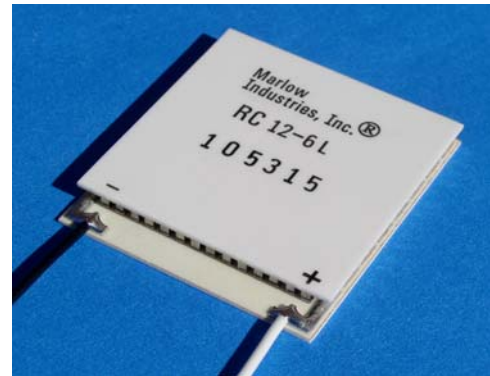
**RoHS 2002/95/EC Compliant**

TECHNICAL DATA SHEET

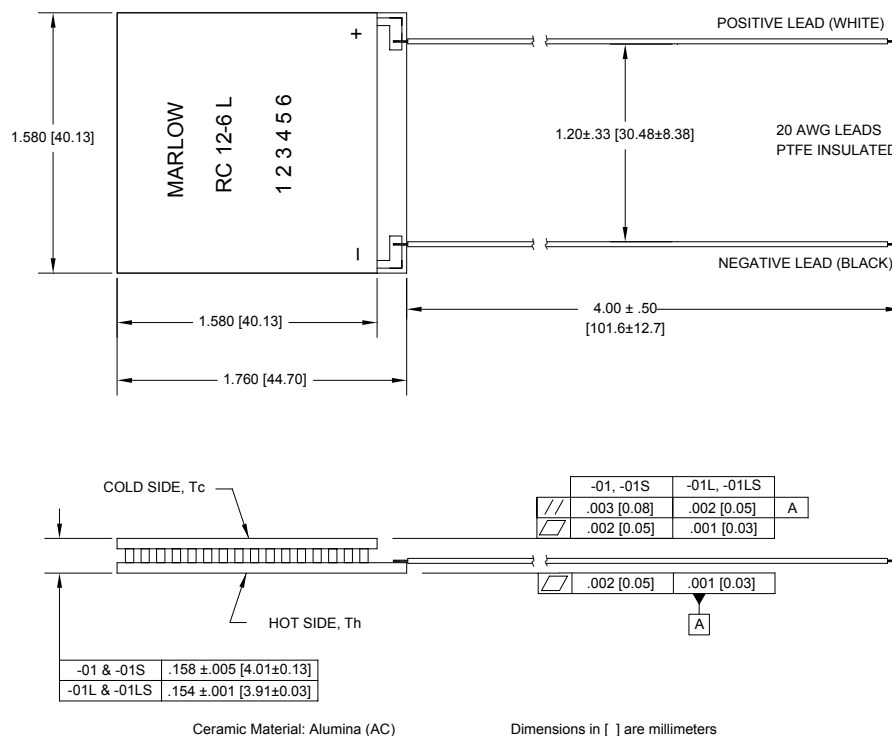
## Thermoelectric Cooler RC12- 6

### Performance Values

|                                  |      |      |
|----------------------------------|------|------|
| Hot Side Temperature (°C)        | 27°C | 50°C |
| Δ Tmax (°C-dry N <sub>2</sub> ): | 66   | 74   |
| Qmax (watts):                    | 54   | 60   |
| I <sub>max</sub> (amps):         | 5.6  | 5.6  |
| V <sub>max</sub> (vdc):          | 14.7 | 16.4 |
| AC Resistance (ohms):            | 2.2  | ---  |



### Mechanical Characteristics



### Ordering Options

| Model Number | Description             |
|--------------|-------------------------|
| RC12-6-01    | Base Model w/ leads     |
| RC12-6-01L   | Lapped Model            |
| RC12-6-01S   | Sealed Model            |
| RC12-6-01LS  | 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.

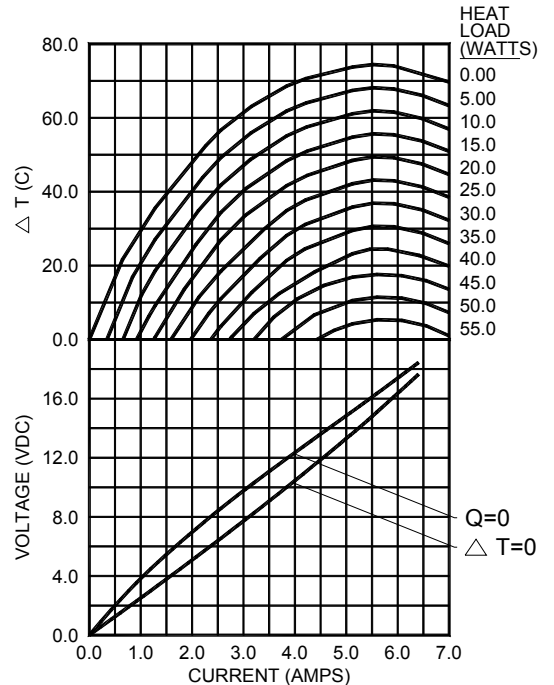
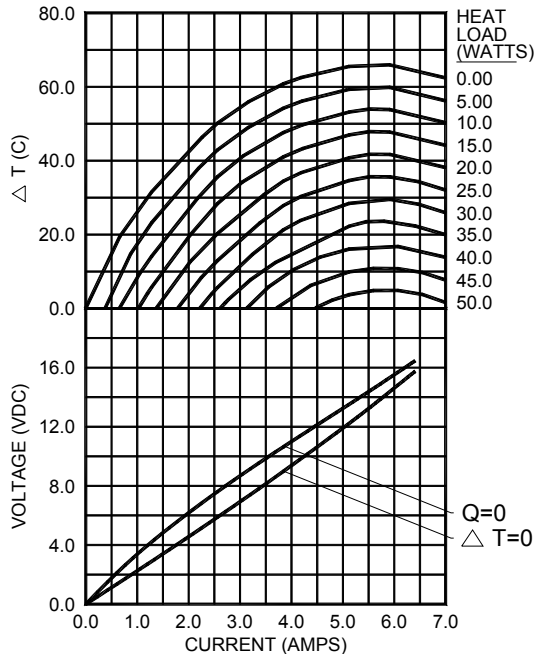


**Performance Curves**

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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