

# marlow industries inc.®

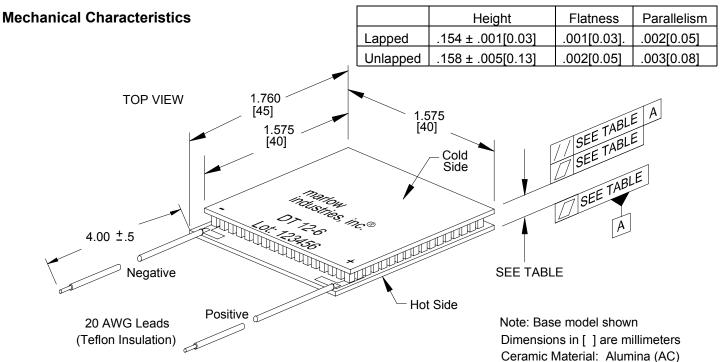
# **Thermoelectric Cooler**

DT12-6

### **Performance Values**

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





## **Ordering Options**

Model Number	Description
DT12-6-01	Base Model
DT12-6-01L	Lapped Model
DT12-6-01S	Sealed Model
DT12-6-01LS	Lapped and Sealed Model

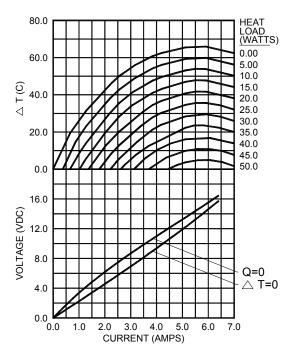
#### **Features**

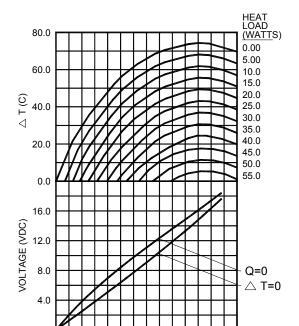
- Solid state reliability
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C)</li>
- Superior nickel diffusion barriers on elements
- High strength for rugged environment
- Porched configuration for improved leadwire strength
- RTV sealing option available to improve reliability in condensing environment
- Lapped option available for multiple module applications.

#### **Performance Curves**

#### **Environment: One atmosphere dry nitrogen**

Hot Side Temperature: 27°C





**CURRENT (AMPS)** 

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.

0.0

2.0 3.0 4.0

#### Installation

Consult Marlow Industries' Thermoelectric Installation Guide or reliability report for more details. For additional information, please contact one of our application engineers for technical support.

## **Operation Cautions**

Maximum storage and operation +150°C.

For maximum reliability, storage and operation below 85°C is recommended. Excessive power cycling and powering through thermostatic (on/off) control is not recommended.



Marlow Industries, Inc. 10451 Vista Park Road Dallas Texas 75238-1645 TEL: 214-340-4900

FAX: 214-341-5212 Internet: <a href="https://www.marlow.com">www.marlow.com</a>

Marlow Industries Europe

Aberdeen House, South Road Haywards Heath West Sussex RH164NG UK

TEL: +44 (0)1444-443404 FAX: +44 (0)1444-443334 **Marlow Industries Asia** 

6.0

1-1-8-401 Uehara, Shibuya-ku Tokyo, Japan 151-0064 TEL: +81 (3) 5454-5280

FAX: +81 (3) 5454-5281