

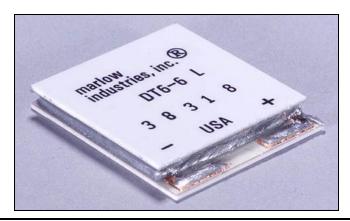
# marlow industries inc.®

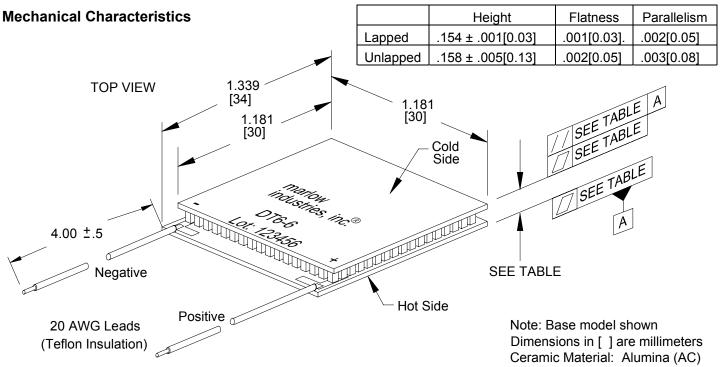
## **Thermoelectric Cooler**

**DT6-6** 

#### **Performance Values**

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	66	73
Qmax (watts):	30	33
Imax (amps):	5.6	5.6
Vmax (vdc):	8.2	9.2
AC Resistance (ohms):	1.2	





### **Ordering Options**

Model Number	Description
DT6-6-01	Base Model
DT6-6-01L	Lapped Model
DT6-6-01S	Sealed Model
DT6-6-01LS	Lapped and Sealed Model

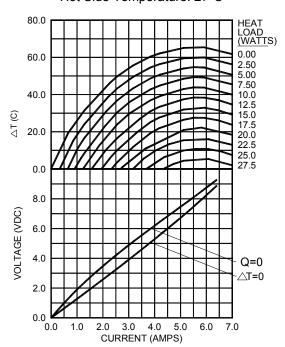
#### **Features**

- 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.

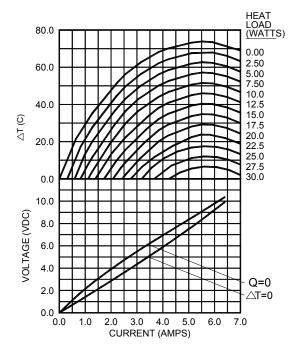
#### **Performance Curves**

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

Hot Side Temperature: 27°C



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.

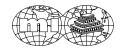
#### Installation

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.



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