

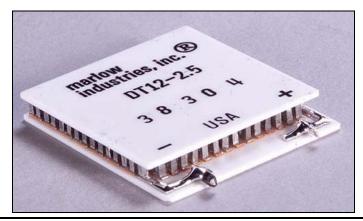
# marlow industries inc.®

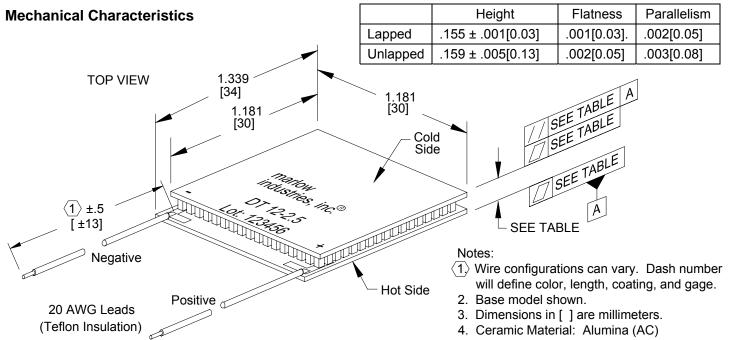
### **Thermoelectric Cooler**

DT12-2.5

#### **Performance Values**

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	66	74
Qmax (watts):	23	26
Imax (amps):	2.5	2.5
Vmax (vdc):	14.7	16.4
AC Resistance (ohms):	4.9	





## **Ordering Options**

Model Number	Description
DT12-2.5-01	Base Model
DT12-2.5-01L	Lapped Model
DT12-2.5-01S	Sealed Model
DT12-2.5-01LS	Lapped and Sealed Model

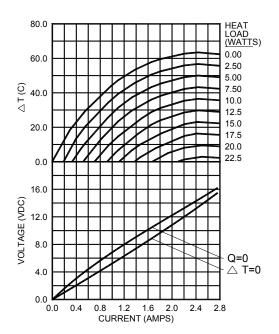
#### **Features**

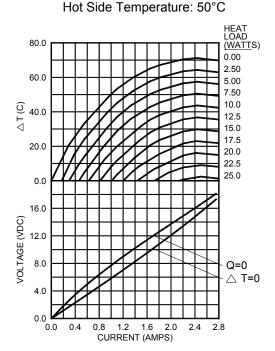
- Solid state reliability
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C)</li>
- Superior nickel diffusion barriers on elements
- High strength for rugged environment
- Porched configuration for improved leadwire 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





For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, consult one of our Applications Engineers.

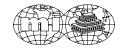
#### Installation

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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