

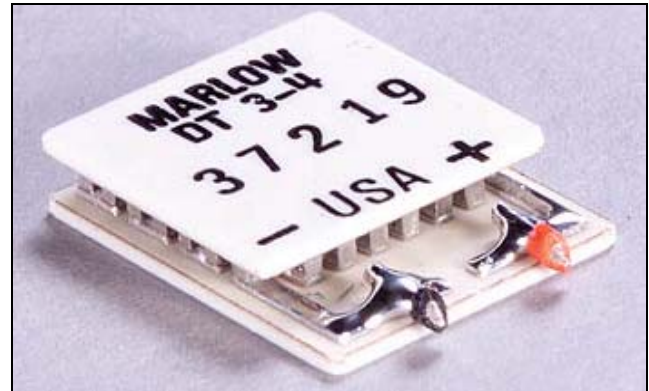


**Thermoelectric Cooler**

**DT3-4**

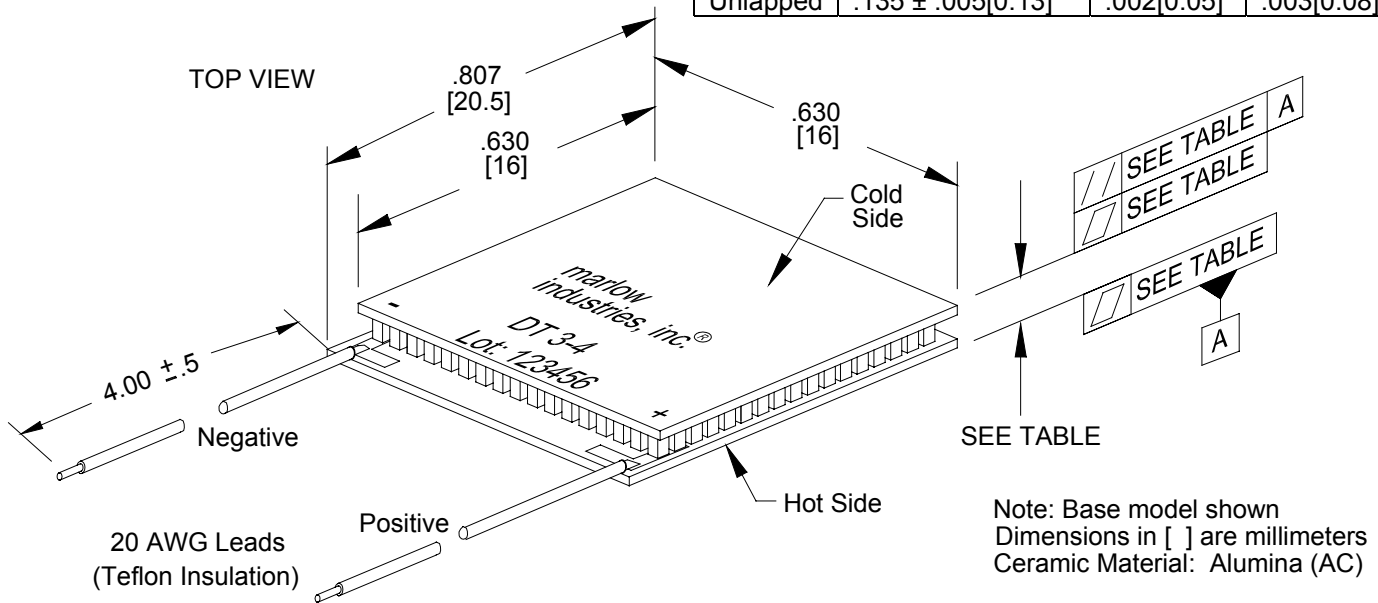
**Performance Values**

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N <sub>2</sub> ):	65	73
Qmax (watts):	9	10
I <sub>max</sub> (amps):	3.7	3.7
V <sub>max</sub> (vdc):	3.6	4.1
AC Resistance (ohms):	0.8	---



**Mechanical Characteristics**

	Height	Flatness	Parallelism
Lapped	.131 ± .001[0.03]	.001[0.03]	.002[0.05]
Unlapped	.135 ± .005[0.13]	.002[0.05]	.003[0.08]



**Ordering Options**

Model Number	Description
DT3-4-01	Base Model
DT3-4-01L	Lapped Model
DT3-4-01S	Sealed Model
DT3-4-01LS	Lapped and Sealed Model

**Features**

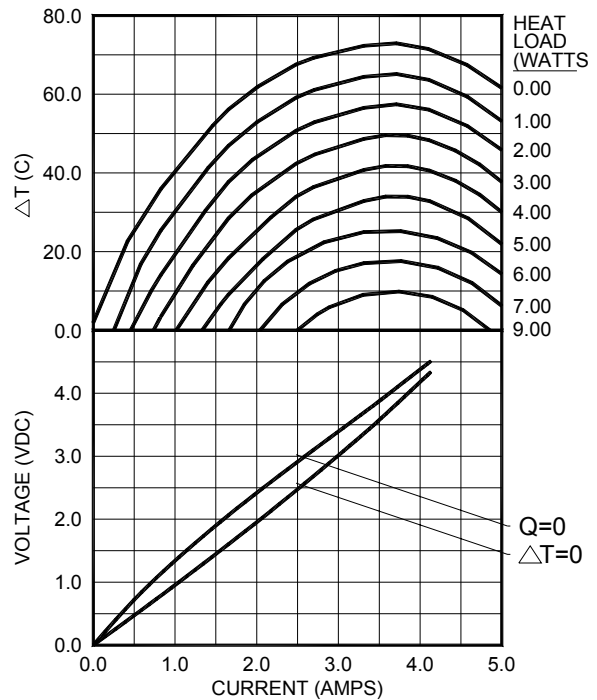
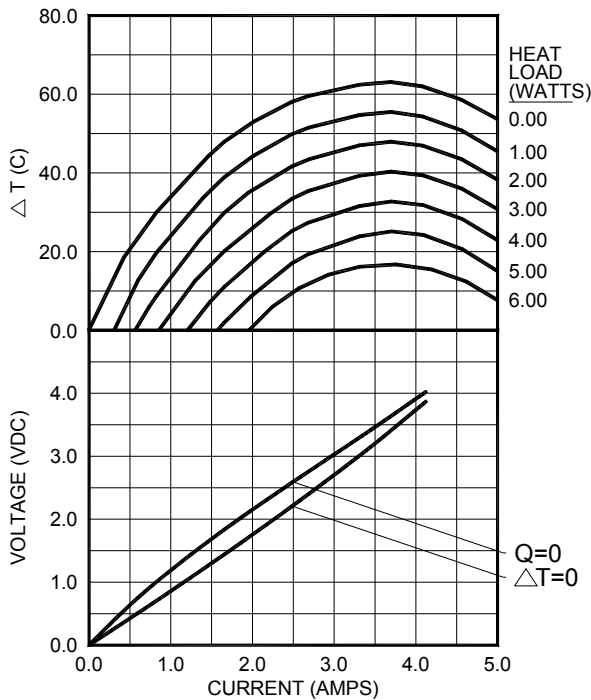
- Solid state reliability
- Built with high temperature solder with the ability to withstand higher assembly processing temperatures for short periods of time (<160°C)
- Superior nickel diffusion barriers on elements
- High strength for rugged environment
- Porched configuration for improved leadwire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