

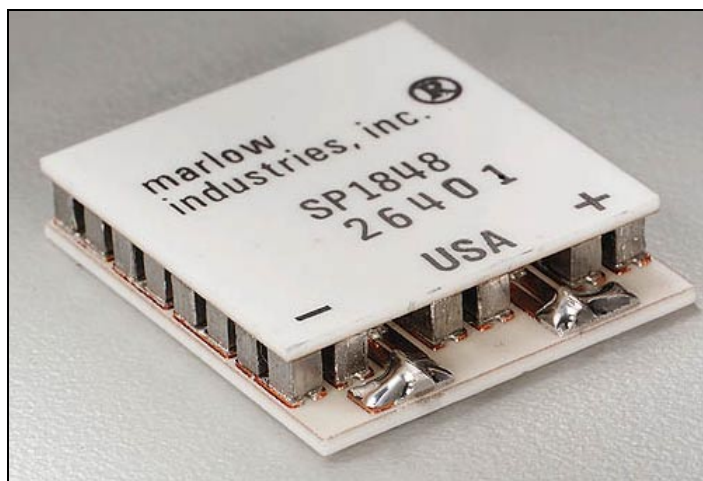


Thermoelectric Cooler

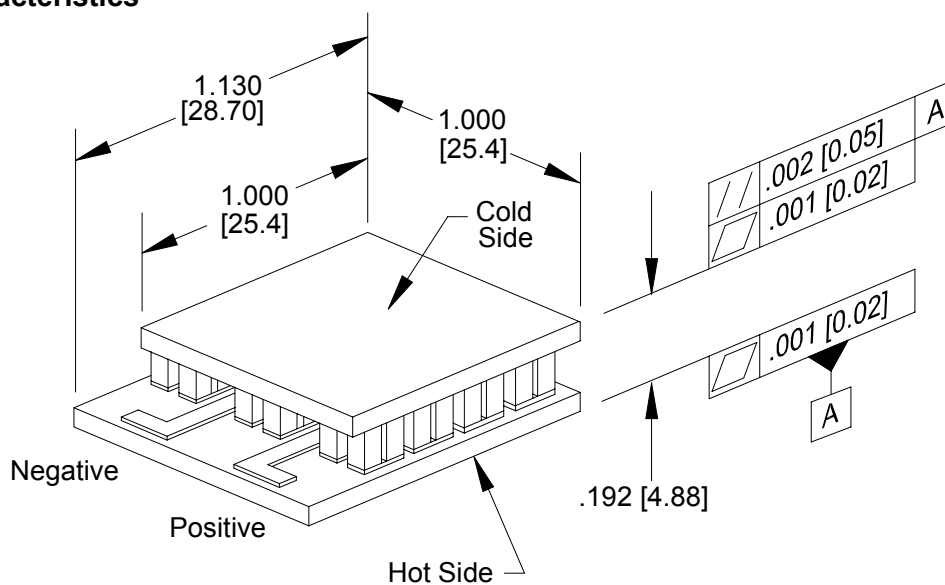
SP1848

Performance Values

Hot Side Temperature (°C)	27°C	50°C
ΔT_{max} (°C-dry N ₂):	62.0	70.6
Q _{max} (watts):	21.3	23.6
I _{max} (amps):	9.36	9.24
V _{max} (vdc):	3.48	3.88
AC Resistance (ohms):	0.323	---



Mechanical Characteristics



Ceramic Material: Alumina (AlN)
Millimeters are in []

Ordering Options

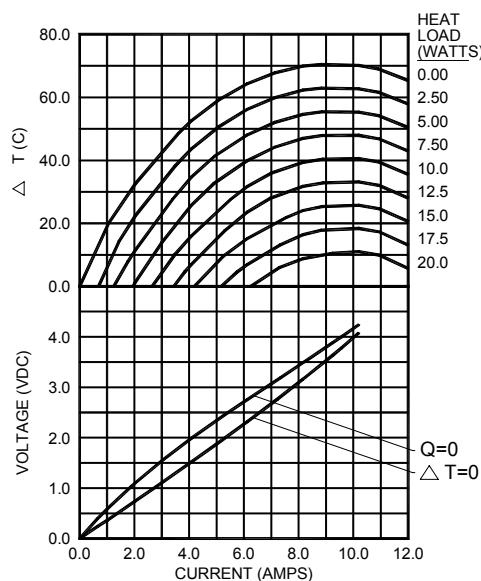
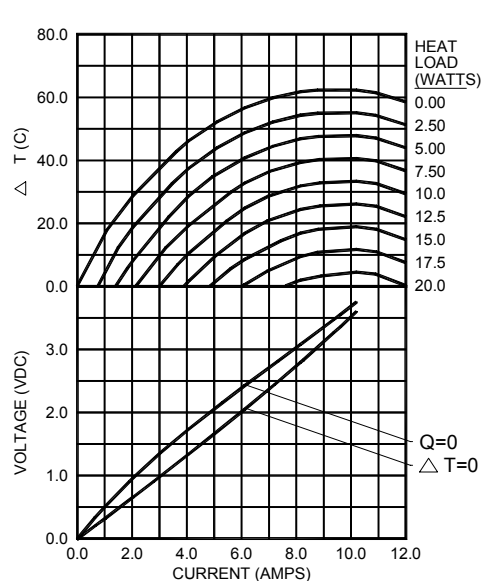
SP1848-00	with out lead wire
SP1848-03	with 4" lead wire

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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