



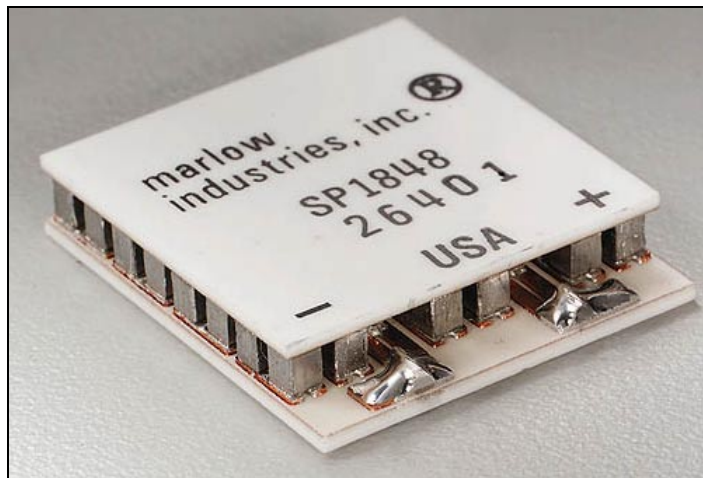
marlow industries inc.®

Thermoelectric Cooler

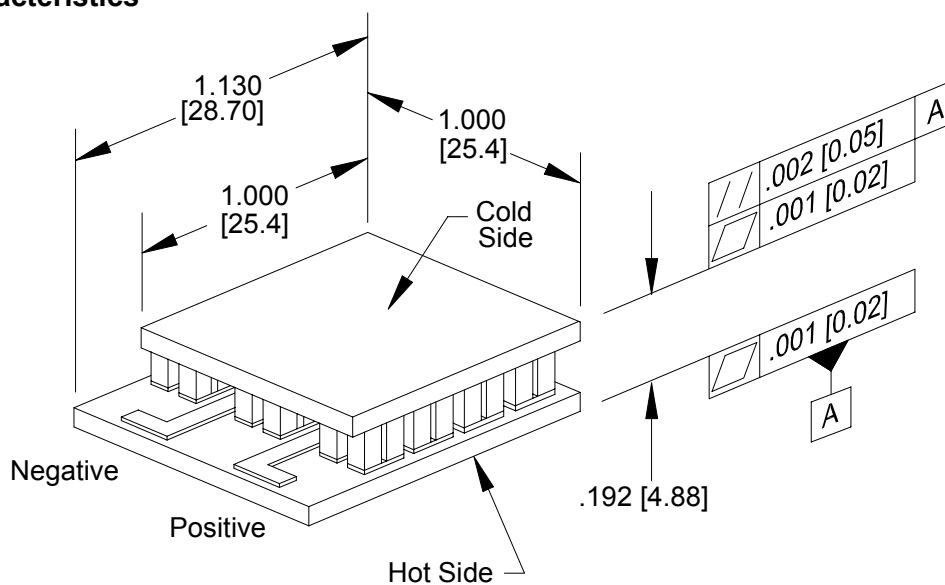
SP1848

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 (Al₂O₃)
Millimeters are in []

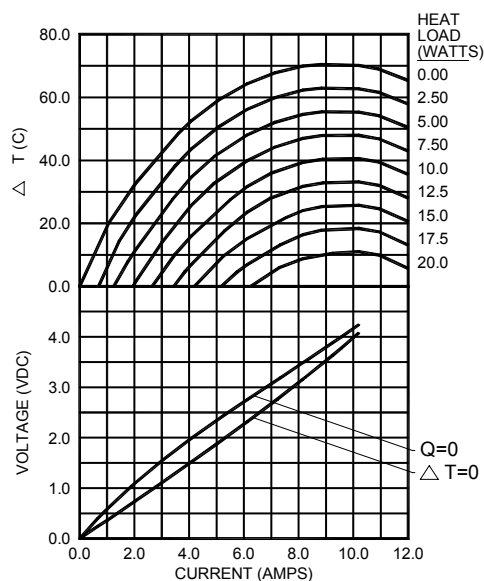
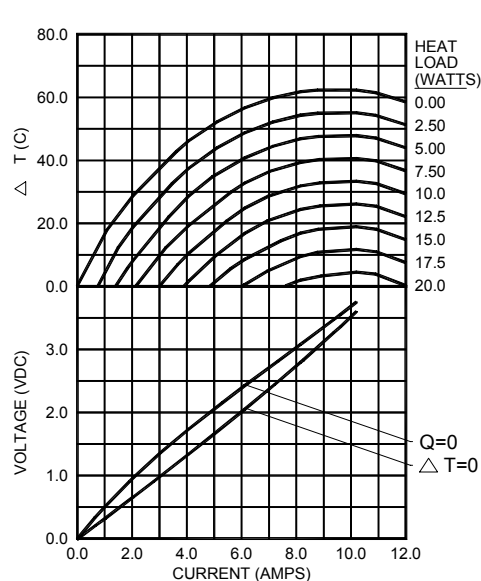
Ordering Options

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.

**Marlow Industries, Inc.**

10451 Vista Park Road
Dallas Texas 75238-1645

TEL: 214-340-4900

FAX: 214-341-5212

Internet: <http://www.marlow.com>**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

1-1-8-401

Uehara, Shibuya-ku

Tokyo, Japan 151-0064

TEL: +81 (3) 5454-5280

FAX: +81 (3) 5454-5281