

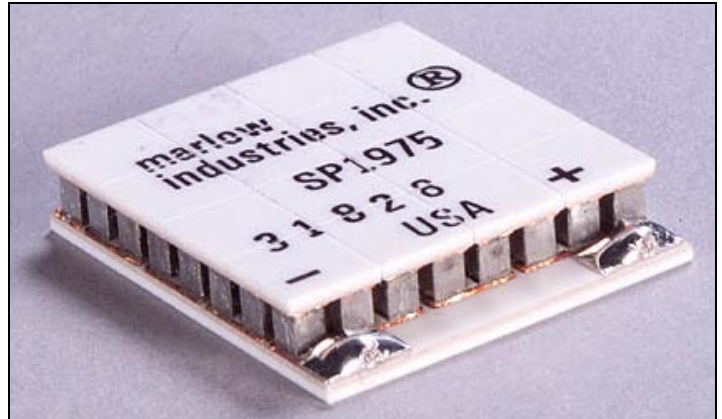


Thermoelectric Cooler

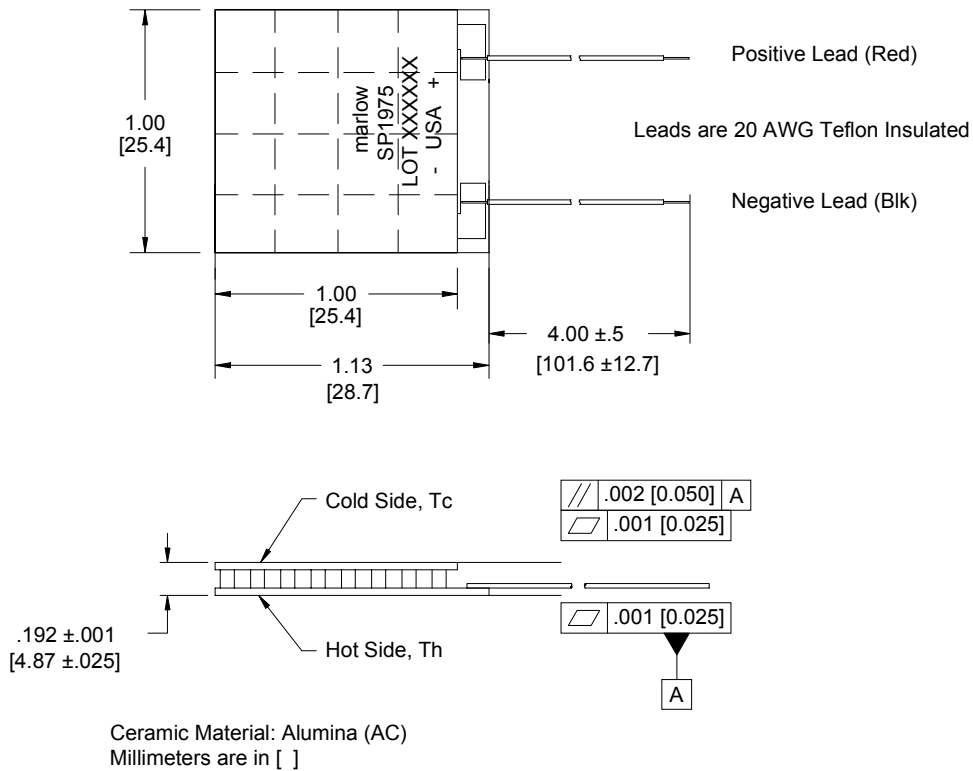
SP1975

Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	60.0	68.0
Qmax (watts):	20.4	22.6
I _{max} (amps):	8.92	8.76
V _{max} (vdc):	3.63	4.02
AC Resistance (ohms):	0.332	---



Mechanical Characteristics

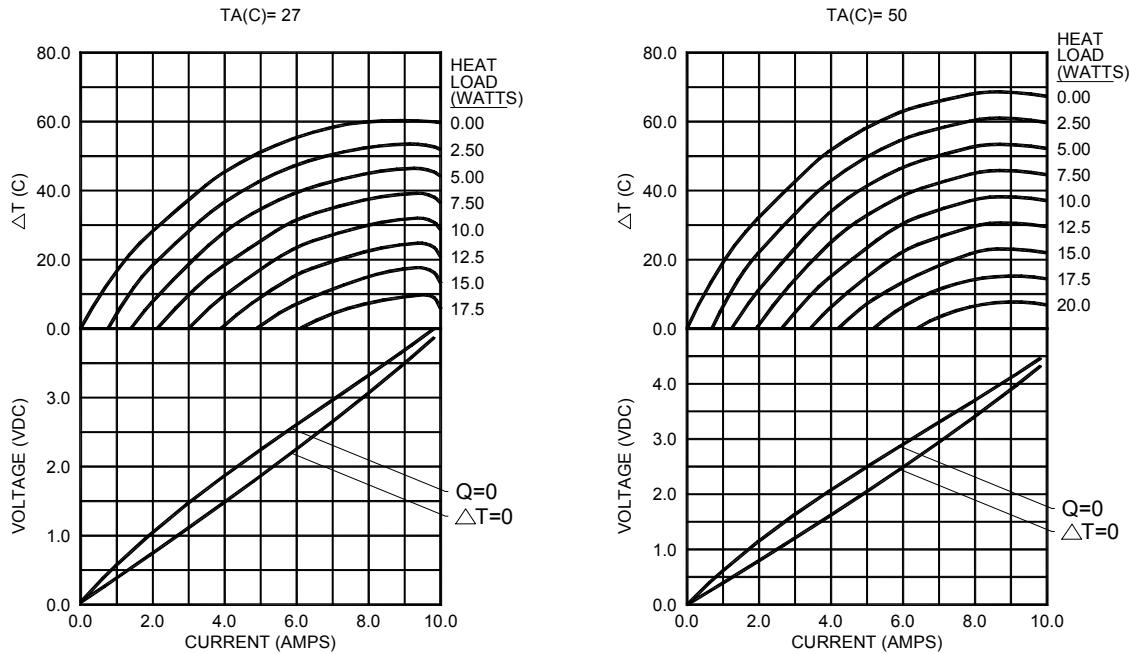


Ordering Options

SP1975-00	with out lead wires
SP1975-03	with 4" lead wires

Performance Curves

Environment: One atmosphere dry nitrogen



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