

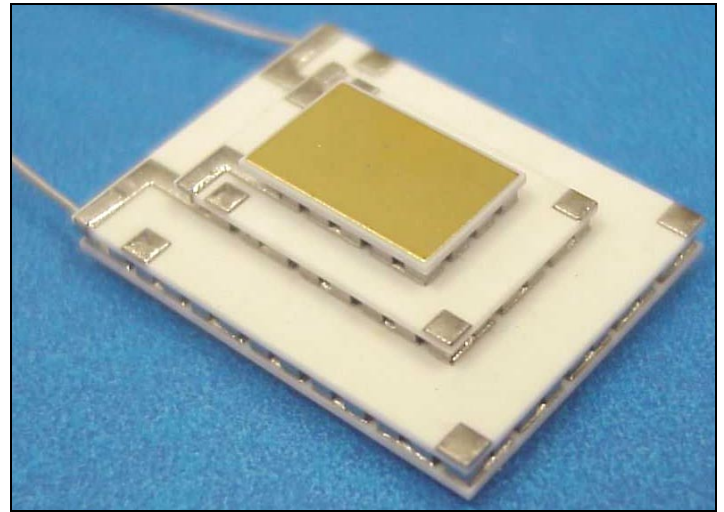


Thermoelectric Cooler

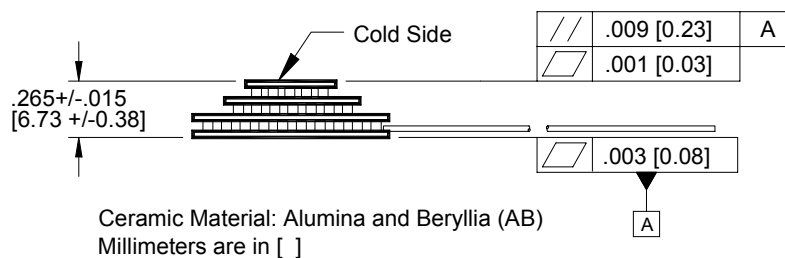
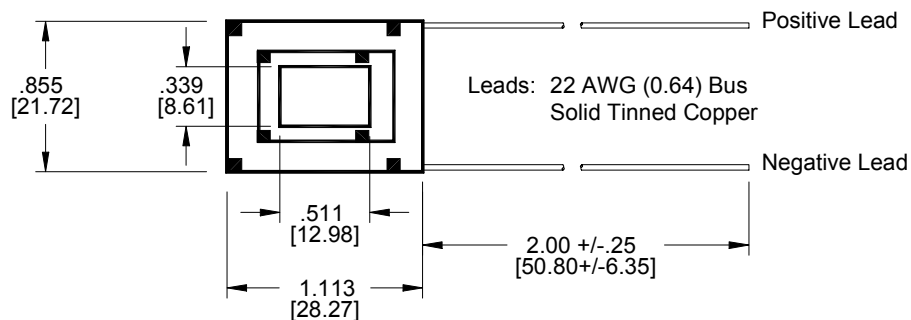
SP2402

Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	110	123
Qmax (watts):	8.0	8.7
I _{max} (amps):	5.5	5.5
V _{max} (vdc):	8.5	9.6
AC Resistance (ohms):	1.50	---



Mechanical Characteristics

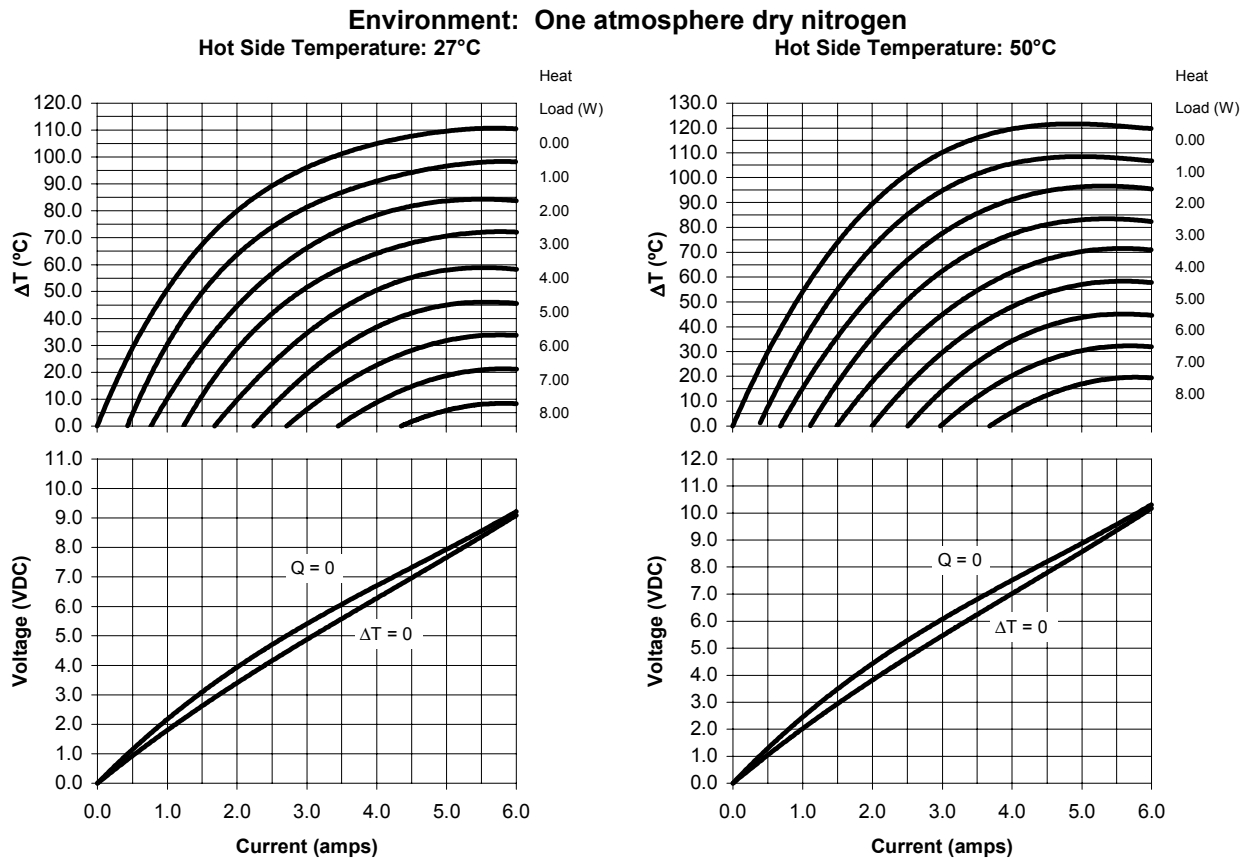


Ordering Options

SP2402-01AB	both surfaces are metallized
SP2402-02AB	hot side exterior is metallized
SP2402-03AB	no metallization

- For example, an SP2402 with only the hot side metallized is specified as an SP2402-02AB
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

Performance Curves



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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