

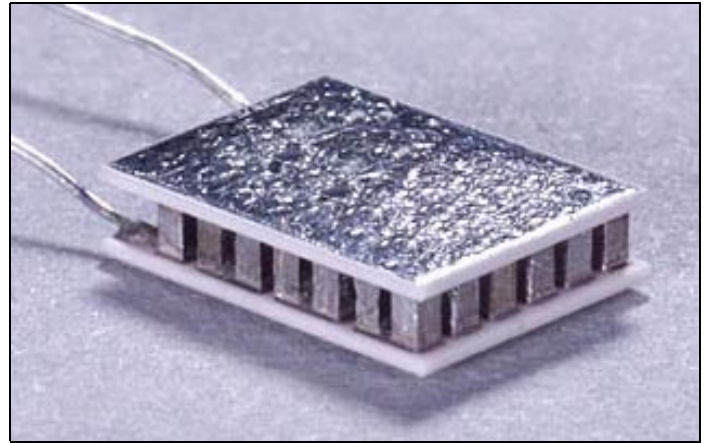


Thermoelectric Cooler

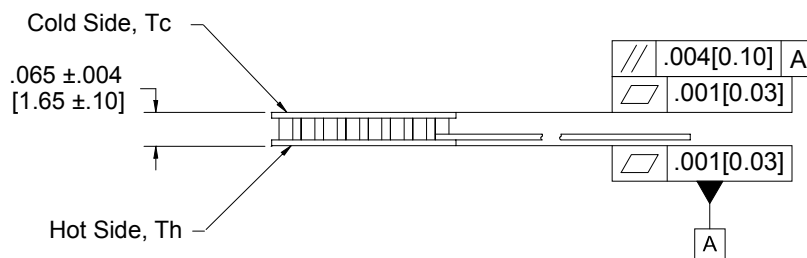
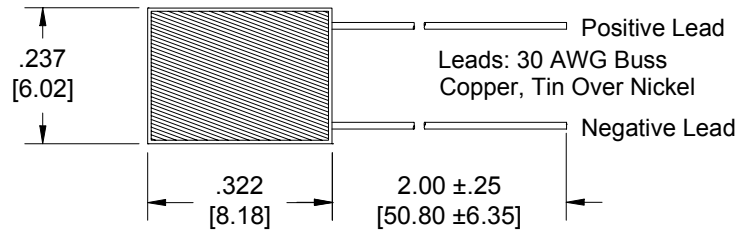
SP5083

Performance Values

Hot Side Temperature (°C)	27°C	85°C
Δ Tmax (°C-dry N ₂):	65	86
Qmax (watts):	3.2	4.0
I _{max} (amps):	1.9	1.8
V _{max} (vdc):	2.61	3.31
AC Resistance (ohms):	1.19	---



Mechanical Characteristics



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

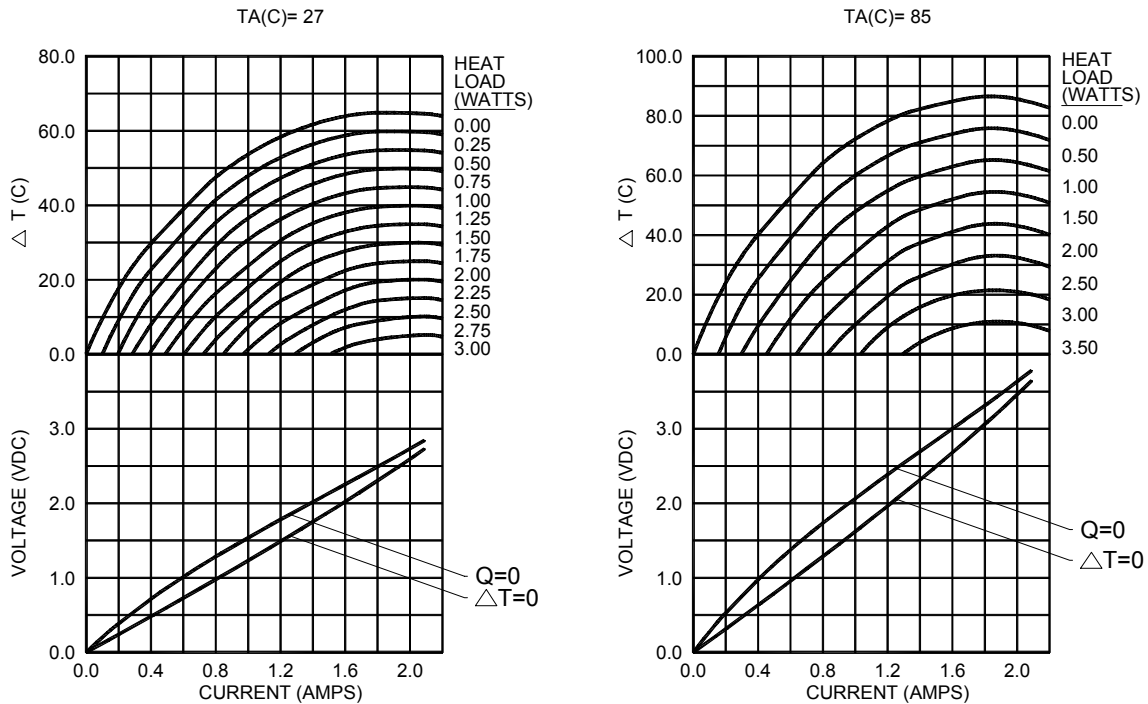
Ordering Options

SP5083-01	both surfaces are metallized
SP5083-02	hot side exterior is metallized
SP5083-03	no metallization

- For example, and SP5083 with only the hot side metallized is specified as an SP5083-02AC
- Pretinned metallized ceramic surface(s) with 96°C or 117°C solder.

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.



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