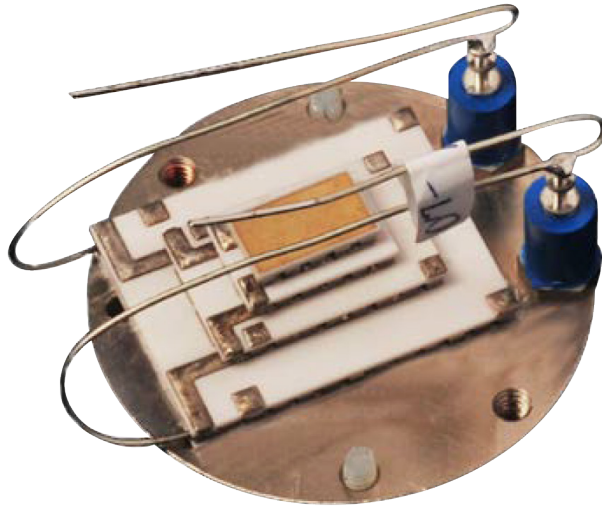


Thermoelectric Coolers (TEC)

MULTI-STAGE THERMOELECTRIC COOLER SP2394

Multi-Stage Thermoelectric Module



FEATURES

- Pretinned metallized ceramic surface(s) with 117°C solder available
- Elevated temperature burn-in with test data provide
- Ceramic Material: Aluminum Oxide and Beryllium Oxide

MULTI-STAGE THERMOELECTRIC COOLER SP2394

Nominal Performance in Nitrogen

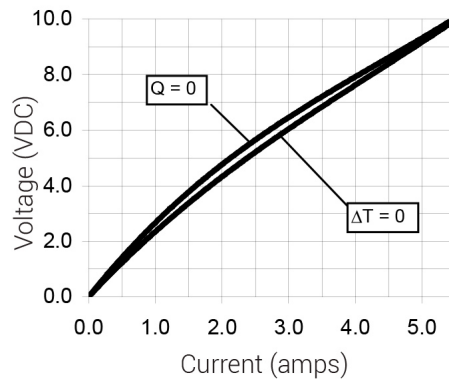
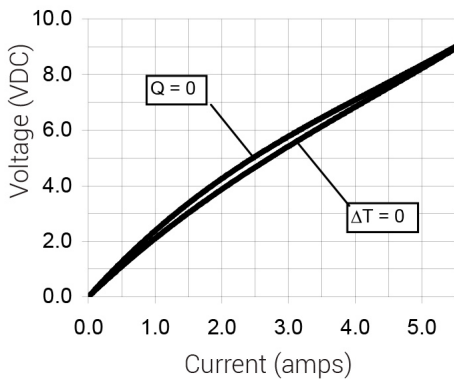
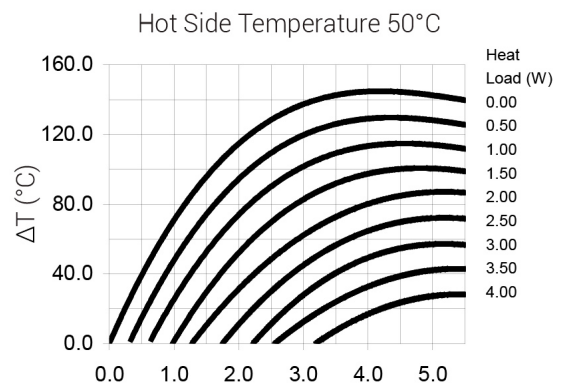
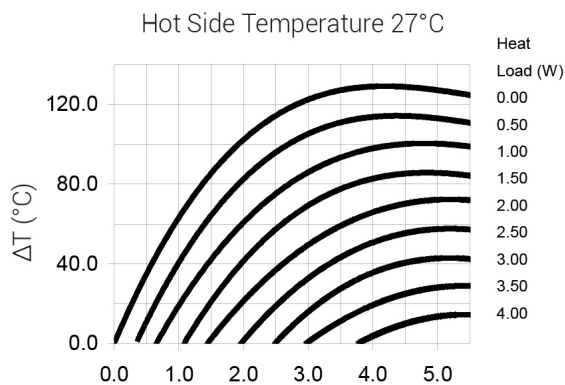
Hot Side Temperature (°C)	27	50
ΔT_{max} (°C)	130	146
Qmax (watts)	4.5	4.9
I _{max} (amps)	5.1	5.1
V _{max} (vdc)	8.5	9.4
AC Resistance (ohms)	1.56	--

Ordering Options

Model Number	Description
SP2394-01AB	Metallized Base and Top – cooler is mounted and shipped on test base
SP2394-02AB	Metallized Base Only – cooler is mounted and shipped on test base
SP2394-03AB	No Metallization, No Burn In
SP2394-04AB	Metallized Base Only, No Burn In
SP2394-05AB	Metallized Base and Top, 117° both sides
SP2394-07AB	Metallized Base and Top, No Burn In

Typical Performance Curves

Environment: Vacuum



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, please contact us.

Operation Cautions

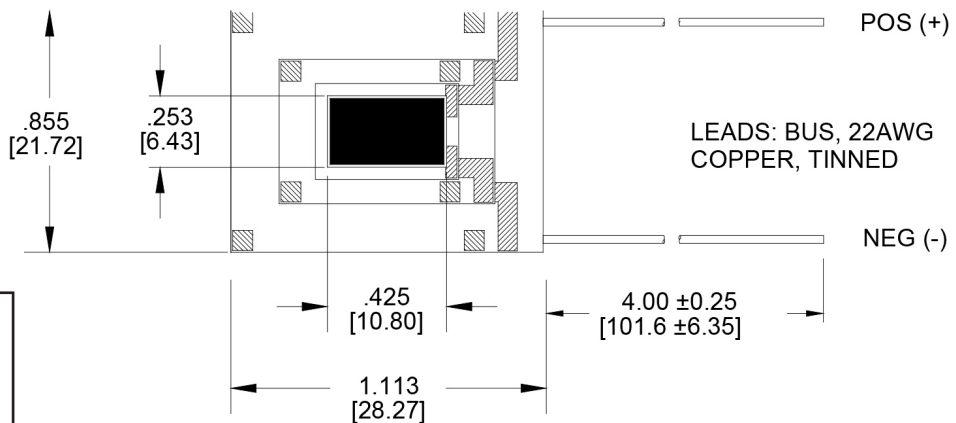
For maximum reliability, storage and operation below 85°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

Installation

Recommended mounting methods: Bonding with thermal epoxy or soldering with metallized ceramics. For additional information, please refer to our TEM Installation Guide.

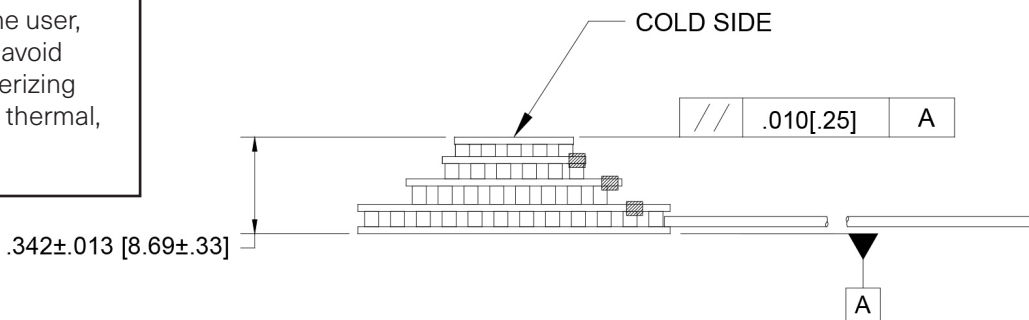
MULTI-STAGE THERMOELECTRIC COOLER SP2394

Mechanical Characteristics



Beryllium Oxide Handling Precautions

Beryllium oxide can be toxic only when dust, mist, or fumes containing particles small enough to enter the lungs are inhaled. For the user, precautions required are to avoid grinding, machining or pulverizing the material by mechanical, thermal, or chemical processing.



All units are in inches. All units in [] are in millimeters.