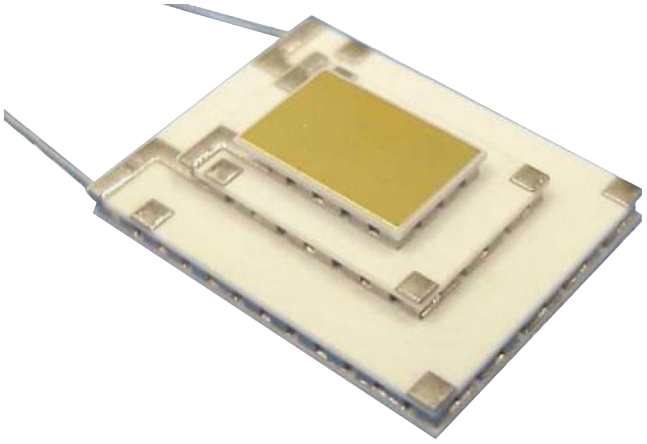
MULTI-STAGE THERMOELECTRIC COOLER SP2402

Multi-Stage Thermoelectric Module



FEATURES

- RoHS EU Compliant
- Ceramic Material: Aluminum Oxide and Beryllium Oxide
- Pretinned metallized ceramic surface(s) with 117°C solder
- Elevated temperature burn-in with test data available
- -04AB: Special height and parallelism requirements and lead orientation
- -07AB: Thermistor mounted on edge of cold side ceramic

COHERENT

Nominal Performance in Nitrogen

Hot Side Temperature (°C)	27	50
Δ Tmax (°C)	109	123
Qmax (watts)	8.7	9.5
Imax (amps)	5.3	5.3
Vmax (vdc)	8.9	9.9
AC Resistance (ohms)	1.54	--

Ordering Options

Model Number	Description
SP2402-01AB	Metallized, Top and Base
SP2402-02AB	Hot Side Exterior is Metallized
SP2402-03AB	No Metallization
SP2402-04AB	Metallized, Top and Base
SP2402-07AB	Metallized, Thermistor

Operation Cautions

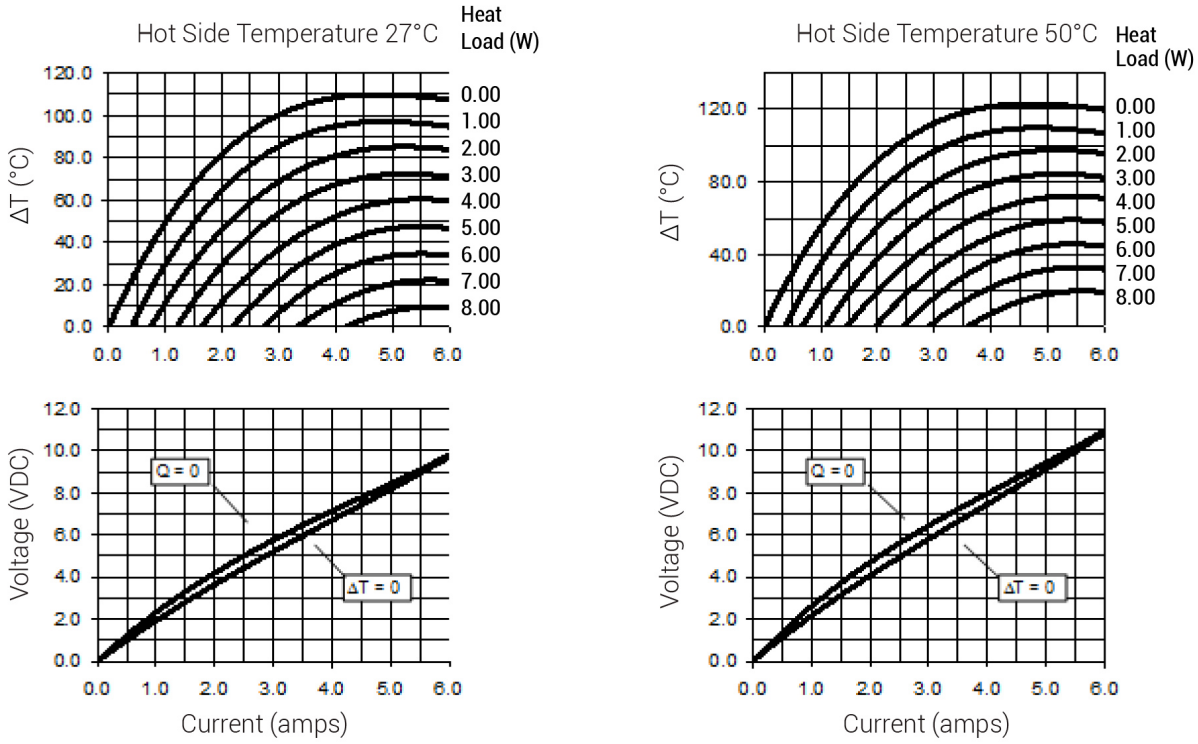
For maximum reliability, storage and operation below 85°C in a non-condensing environment is recommended. To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.

Installation

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

Typical Performance Curves

Environment: One atmosphere dry nitrogen

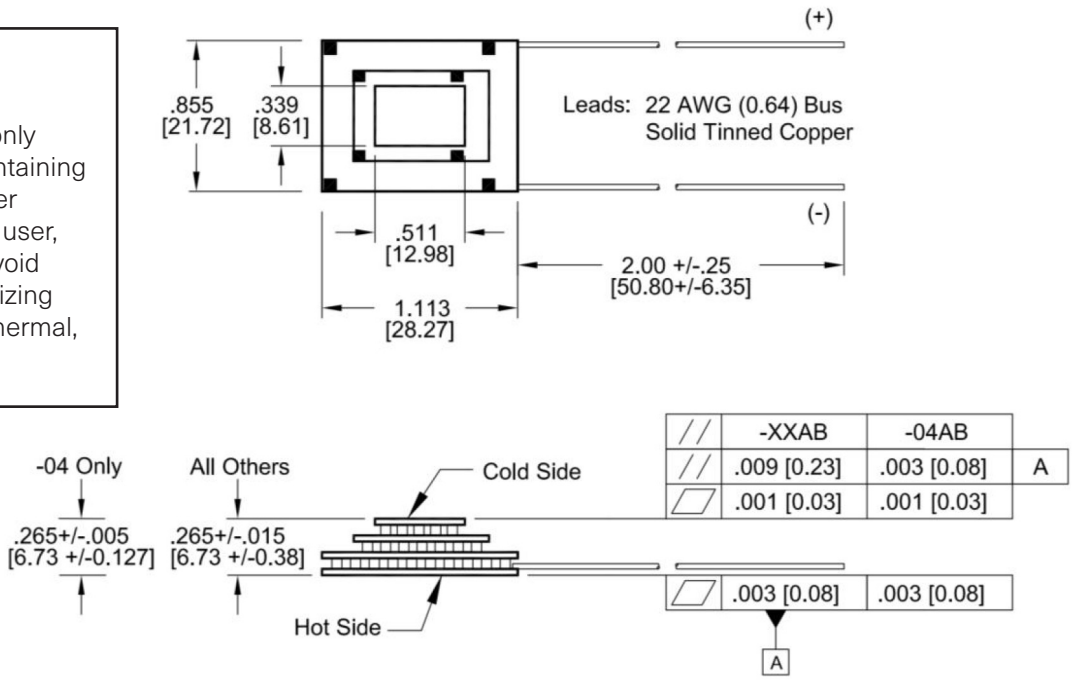


For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, please contact us.

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.

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