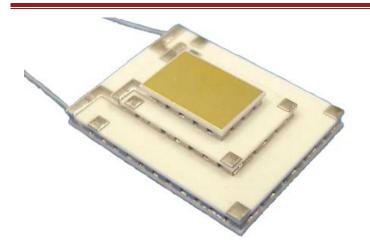
# MARLOW MATERIALS THAT MATTER



# **Technical Data Sheet for SP2402**

Multi-Stage Thermoelectric Module



# **PRODUCT 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.

### 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	Des
SP2402-01AB	Met
SP2402-02AB	Hot
SP2402-03AB	No
SP2402-04AB	Met
SP2402-07AB	Met

#### **Description** Metallized, Top and Base Hot Side Exterior is Metallized No Metallization Metallized, Top and Base 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.

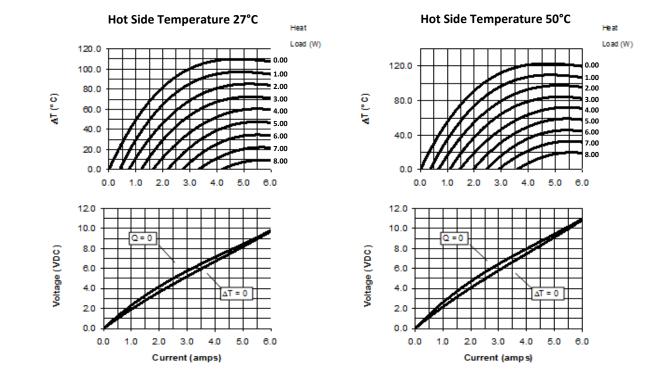
II-VI Marlow – Dallas, TX USA 214-340-4900 877-627-5691 marlow.sales@ii-vi.com Marlow Industries Europe GmbH - Germany +49 (0) 6150 5439 - 403 info@marlow-europe.eu II-VI Japan Inc. 81 43 297 2693 (tel) center@ii-vi.co.jp www.ii-vi.co.jp II-VI Singapore Pte., Ltd. (65) 6481 8215 (tel) info@ii-vi.com.sg Marlow Industries China, II-VI Technologies Beijing 86-10-643 98226 info@iivibj.com

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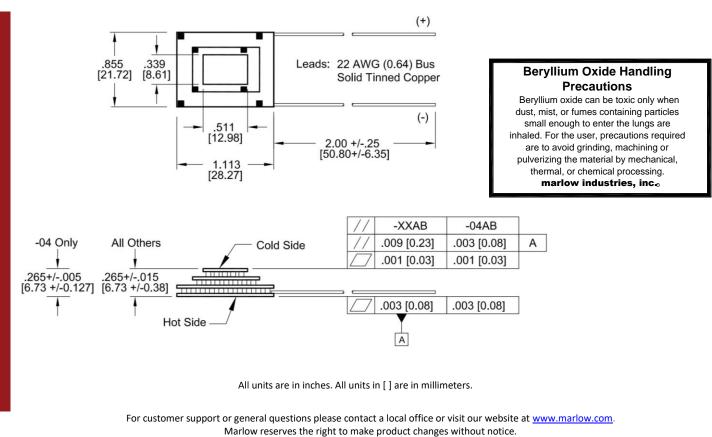
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#### ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN



For performance information in a vacuum or with hot side temperatures other than 27°C or 50°C, contact one of our Applications Engineers at 877-627-5691.



MECHANICAL CHARACTERISTICS

**FYPICAL PERFORMANCE CURVES**