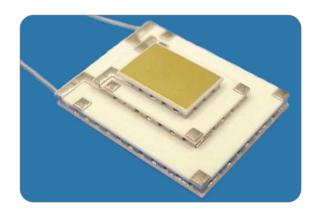


TECHNICAL DATA SHEET



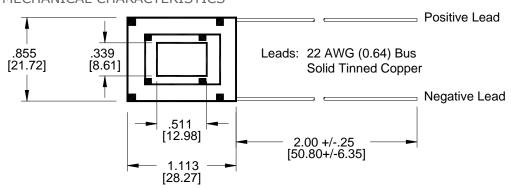
SP2402

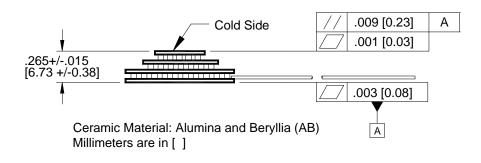
Thermoelectric Cooler RoHS EU Compliant

TYPICAL PERFORMANCE VALUES

Hat Cida Tamananatuna (OC)	27°C	FOOC)
Hot Side Temperature (°C)	2/°C	50°C
Δ Tmax (°C-dry N ₂):	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	

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.

marlow industries, inc.

ORDERING OPTIONS

Model Number Description

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

SP2402-04AB metallized. top and base

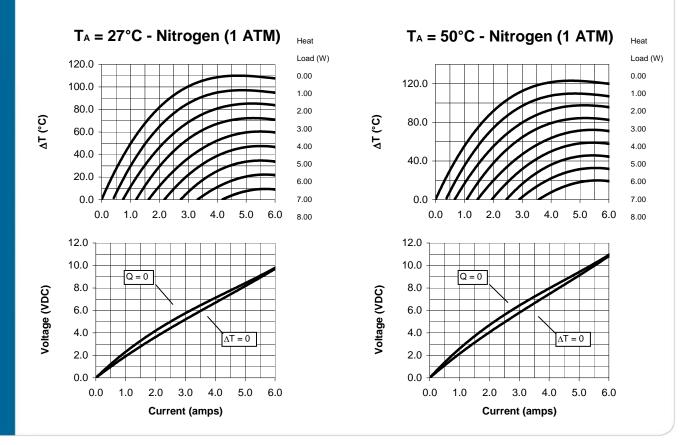
AVAILABLE MODIFICATIONS

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. -04AB: Special height and parallelism requirements and lead orientation.

YPICAL 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.

CONTACT US:

For customer support or general questions please contact a local office below or consult our website for distributor information.

Marlow Industries, Inc. 10451 Vista Park Road Dallas Texas 75238-1645 214-340-4900 (tel) 214-341-5212 (fax) www.marlow.com

II-VI Japan Inc. WBG Marive East 17F 2-6 Nakase, Mihama-ku Chiba-Shi, Chiba 261-7117 Japan 81 43 297 2693 (tel) 81 43 297 3003 (fax) center@ii-vi.co.jp www.ii-vi.co.jp

Marlow Industries Europe GmbH Brunnenweg 19-21 64331 Weiterstadt

Germany

Tel.: +49 (0) 6150 5439 - 403 Fax: +49 (0) 6150 5439 - 400 info@marlow-europe.eu

II-VI Singapore Pte., Ltd. Blk. 5012, Techplace II #04-07 & 05-07/12, Ang Mo Kio Ave. 5 Singapore 569876 (65) 6481 8215 (tel) (65) 6481 8702 (fax) info@ii-vi.com.sg www.ii-vi.com.sg

Marlow Industries China, II-VI Technologies Beijing A subsidiary of II-VI Incorporated Rm 202, 1# Lize 2nd Middle Road Wangjing, Chaoyang District Beijing 100102 China 010-64398226 ext 105 (tel) 010-64399315 (fax) info@iivibj.com