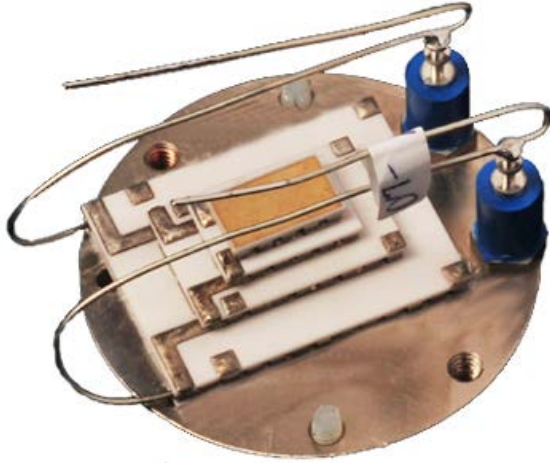




Technical Data Sheet for SP2394

Multi-Stage Thermoelectric Module



NOMINAL PERFORMANCE IN NITROGEN

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

PRODUCT 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.

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

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.

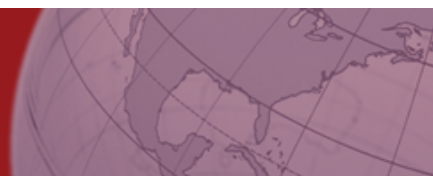
II-VI Marlow – Dallas, TX USA
214-340-4900
877-627-5691
marlow.sales@ii-vi.com

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

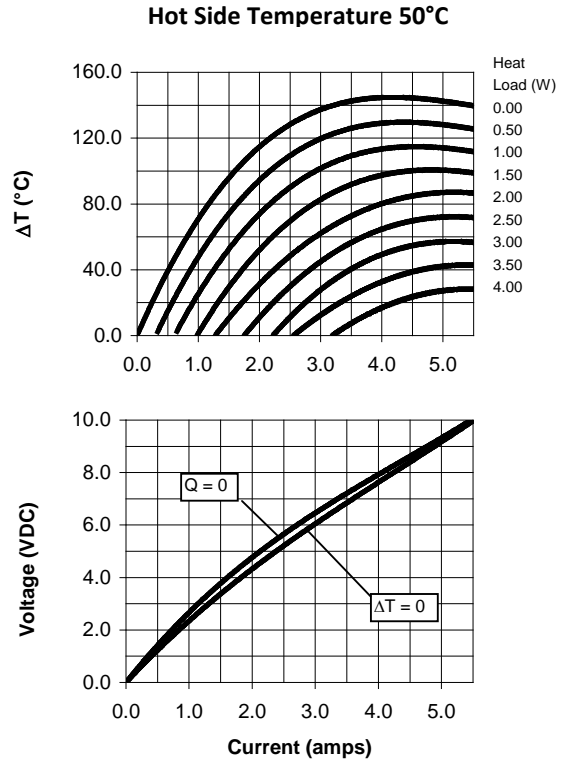
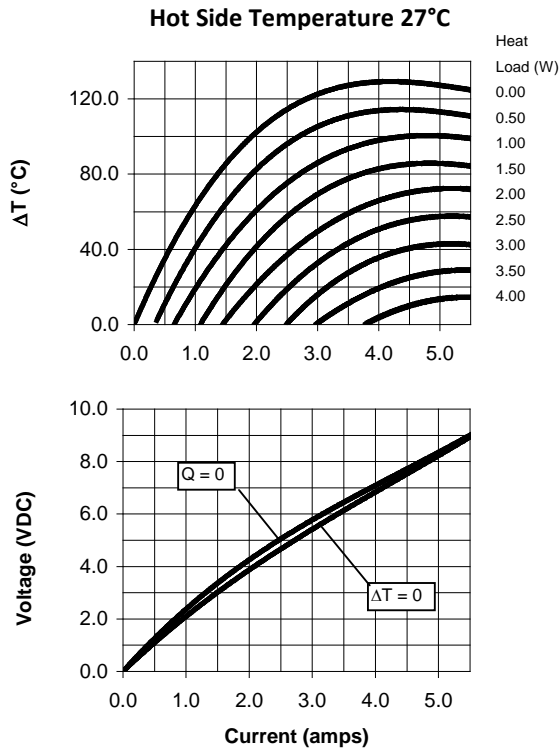
II-VI Singapore Pte., Ltd.
(65) 6481 8215 (tel)
info@ii-vi.com.sg

Marlow Industries China, II-VI
Technologies Beijing
86-10-643 98226
info@iivibj.com



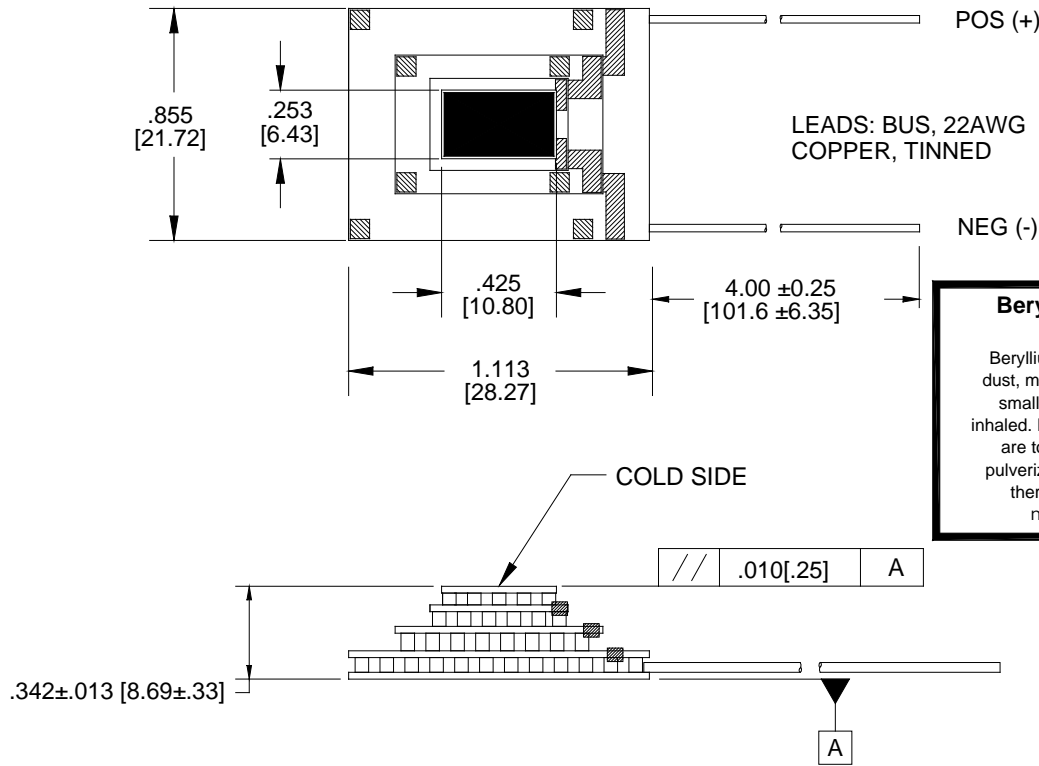
TYPICAL PERFORMANCE CURVES

ENVIRONMENT: VACUUM



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



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_®

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

For customer support or general questions please contact a local office or visit our website at www.marlow.com. Marlow reserves the right to make product changes without notice.