

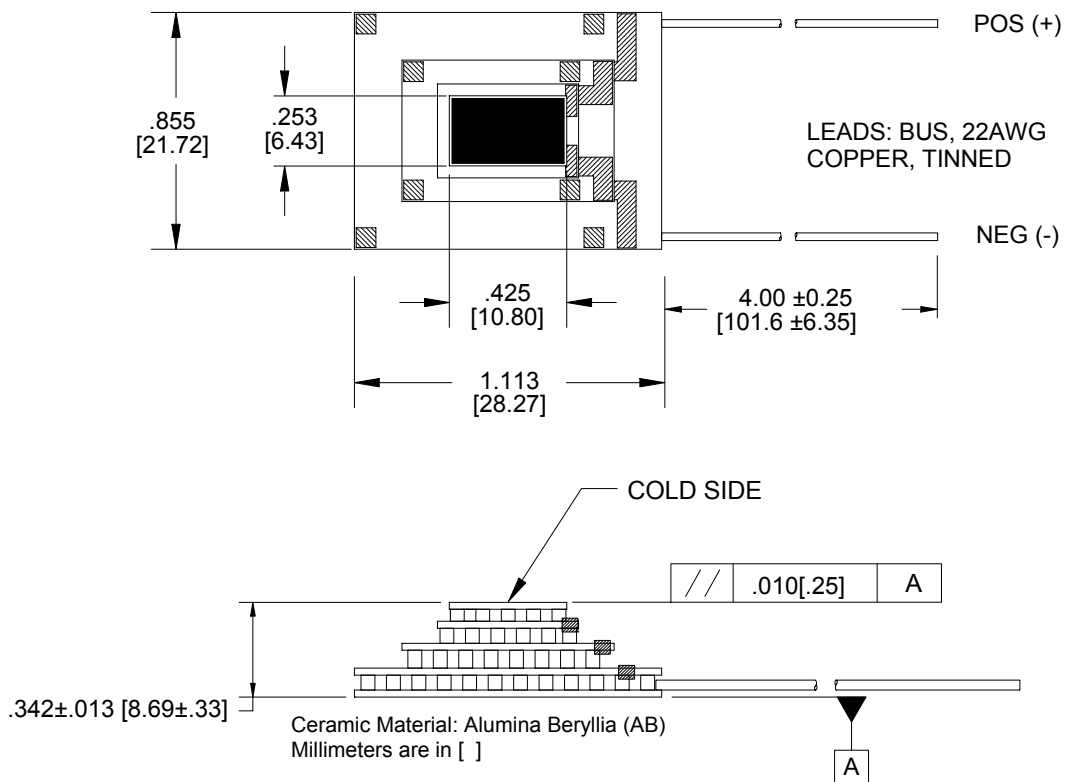


## Thermoelectric Cooler SP2394

### Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-Vacuum):	127	142
Qmax (watts):	4.0	4.4
I <sub>max</sub> (amps):	5.2	5.2
V <sub>max</sub> (vdc):	8.1	9.1
AC Resistance (ohms):	1.51	---

### Mechanical Characteristics



### Ordering Options

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

### Features

- For example, and SP2394 with only the hot side metallized is specified as an SP2394-02AB
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Elevated temperature burn-in with test data provided.

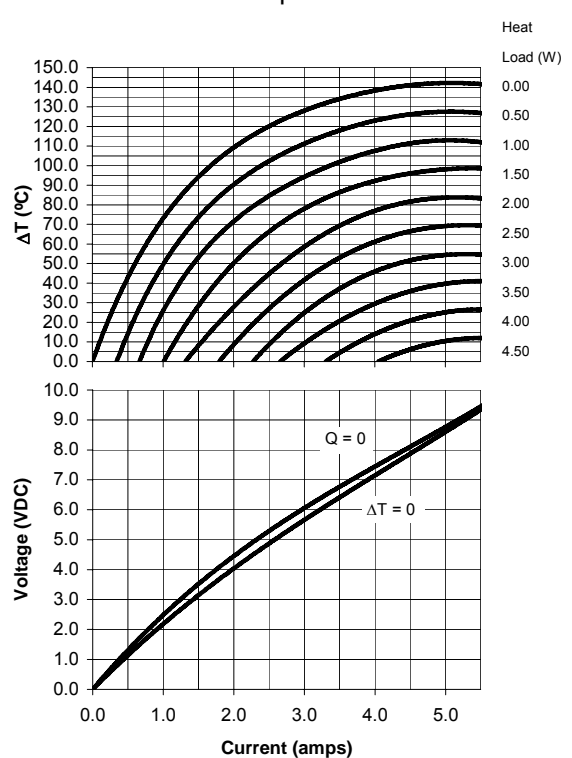
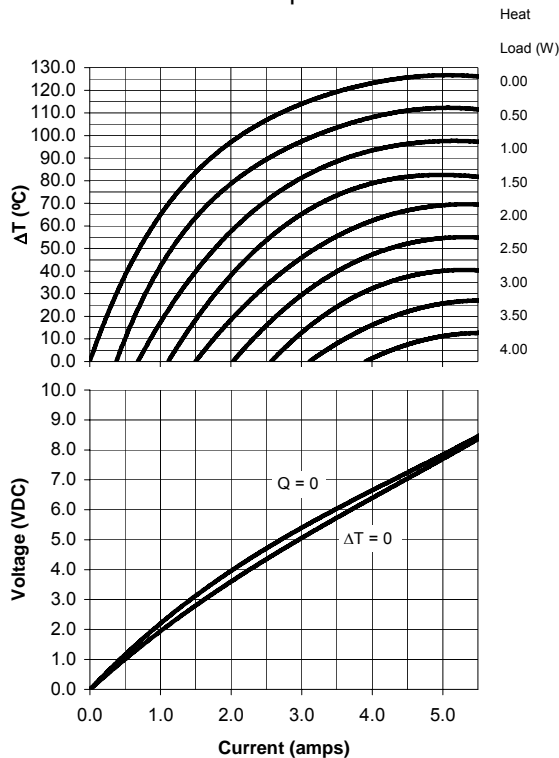


**Performance Curves**

**Environment: Vacuum**

Hot Side Temperature: 27°C

Hot Side Temperature 50°C



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.

**Addresses**

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

**Marlow Industries Europe**  
Aberdeen House, South Road  
Haywards Heath  
West Sussex RH164NG UK  
+44 (0)1444-443404 (tel)  
+44 (0)1444-443334(fax)

**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

**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  
64391260 ext 105 (tel)  
64399315 (fax)  
info@iivbj.com