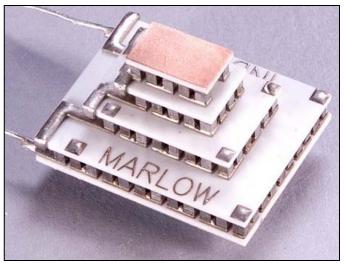


marlow industries inc.®

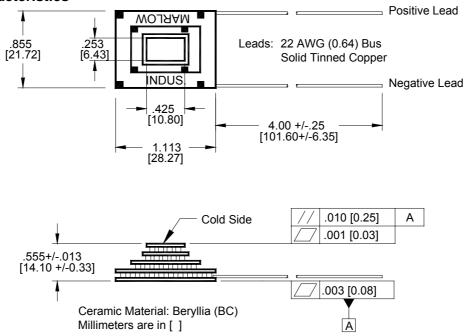
Thermoelectric Cooler

Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (Vacuum):	120	136
Qmax (watts):	2.7	3.0
Imax (amps):	4.0	4.0
Vmax (vdc):	6.8	7.7
AC Resistance (ohms):	1.62	



Mechanical Characteristics



Ordering Options

MI4040-01	both surfaces are metallized – cooler is mounted and shipped on test base
MI4040-02	hot side exterior is metallized – cooler is mounted and shipped on test base
MI4040-03	no exterior metallization

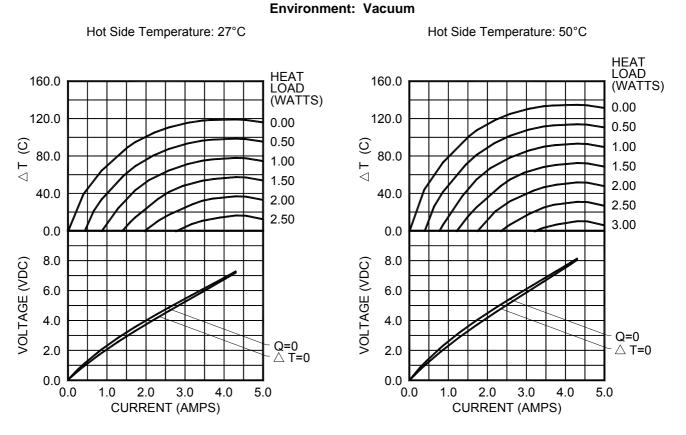
- For example, and MI4040 with only the hot side metallized is specified as an MI4040-02BC
- Pretinned metallized ceramic surface(s) with 117°C solder.
- Thermistor mounted on edge of cold side ceramic. (Calibration available.)
- Elevated temperature burn-in with test data provided.

_

MI4040

Thermoelectric Cooler

Performance Curves



For performance information 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

Marlow Industries, Inc.

10451 Vista Park Road

Dallas Texas 75238-1645

TEL: 214-340-4900

FAX: 214-341-5212

Internet: http://www.marlow.com

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.



Marlow Industries Europe Aberdeen House, South Road Haywards Heath West Sussex RH164NG UK TEL: +44 (0)1444-443404 FAX: +44 (0)1444-443334 Marlow Industries Asia 1-1-8-401 Uehara, Shibuya-ku Tokyo, Japan 151-0064 TEL: +81 (3) 5454-5280 FAX: +81 (3) 5454-5281

Copyright 2000, Marlow Industries, Inc. Marlow Industries reserves the right to change the design and specifications of products without notice. 102-0053, Rev H

MI4040