

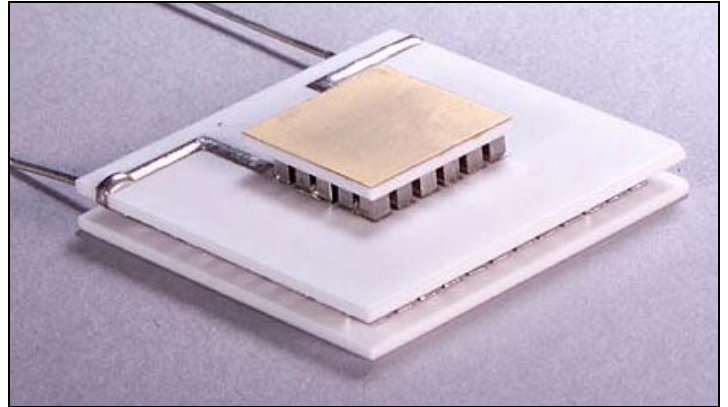


Thermoelectric Cooler

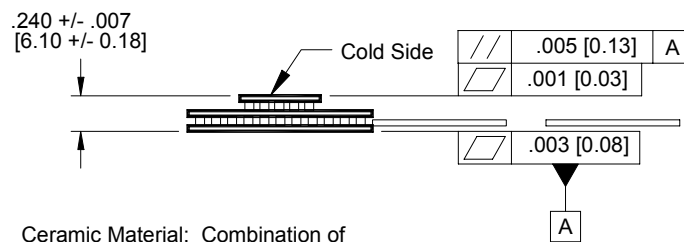
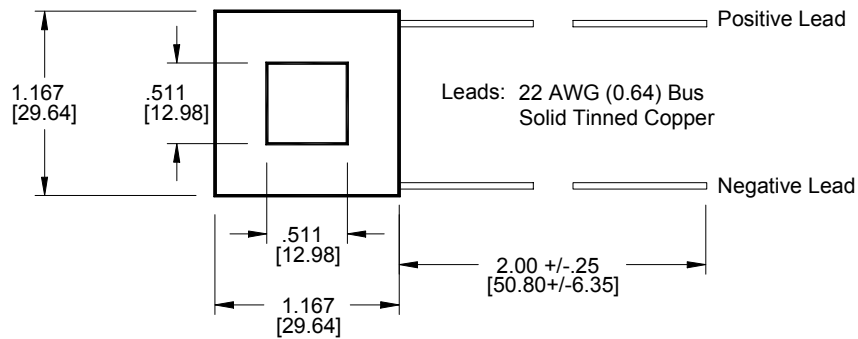
MI2064T

Performance Values

Hot Side Temperature (°C)	27°C	50°C
Δ Tmax (°C-dry N ₂):	93	105
Qmax (watts):	10.4	11.2
I _{max} (amps):	5.4	5.4
V _{max} (vdc):	8.6	9.6
AC Resistance (ohms):	1.43	---



Mechanical Characteristics



Ceramic Material: Combination of Alumina and Beryllia (AB)

Millimeters are in []

Tolerances are ± .030 (0.76) unless otherwise specified

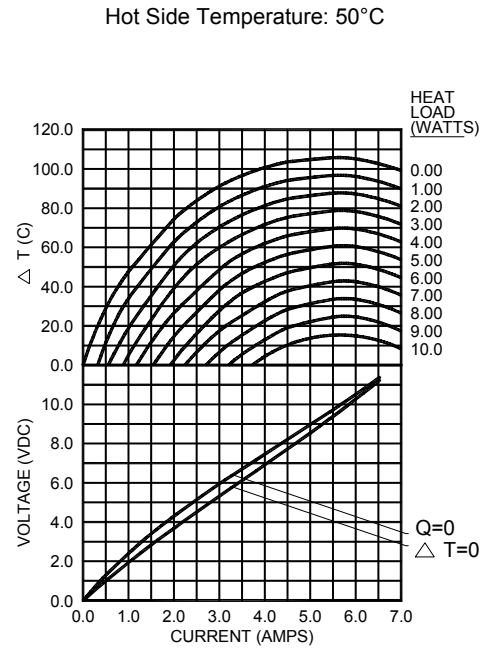
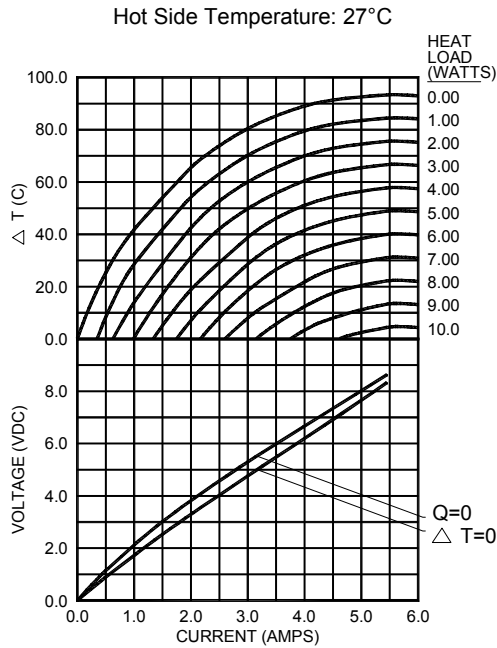
Ordering Options

MI2064T-11	both surfaces are metallized
MI2064T-12	hot side exterior is metallized
MI2064T-13	no metallization

- For example, and MI2064T with only the hot side metallized is specified as an MI2064T-12AB
- 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.

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.

Never abrade or machine beryllium oxide (BC) ceramics without following appropriate safety procedures. Material safety data sheets available upon request.



Marlow Industries, Inc.

10451 Vista Park Road
Dallas Texas 75238-1645

TEL: 214-340-4900

FAX: 214-341-5215

Internet: <http://www.marlow.com>

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