

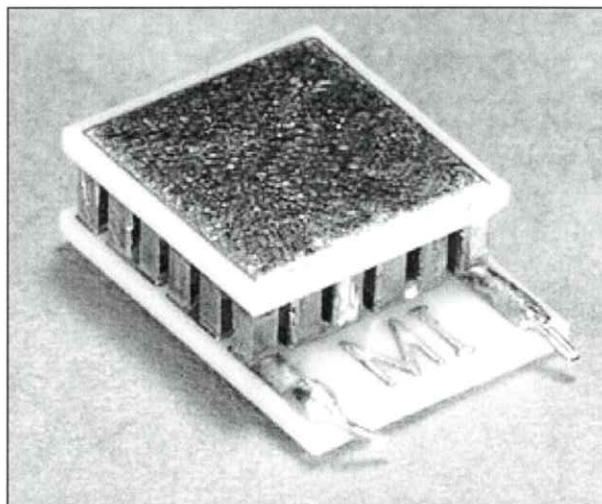


Thermoelectric Cooler

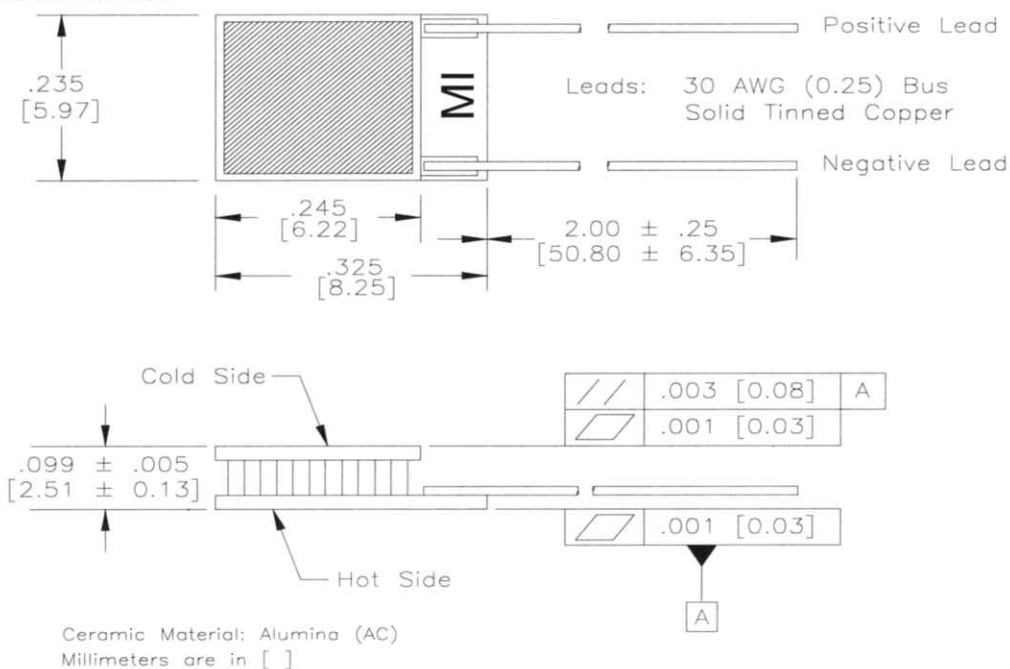
SP5025

Performance Values

Hot Side Temperature (°C)	27°C	85°C
Δ Tmax (°C-dry N ₂):	64.5	85.0
Qmax (watts):	1.94	2.40
I _{max} (amps):	1.46	1.40
V _{max} (vdc):	2.04	2.62
AC Resistance (ohms):	1.22	---



Mechanical Characteristics



Ordering Options

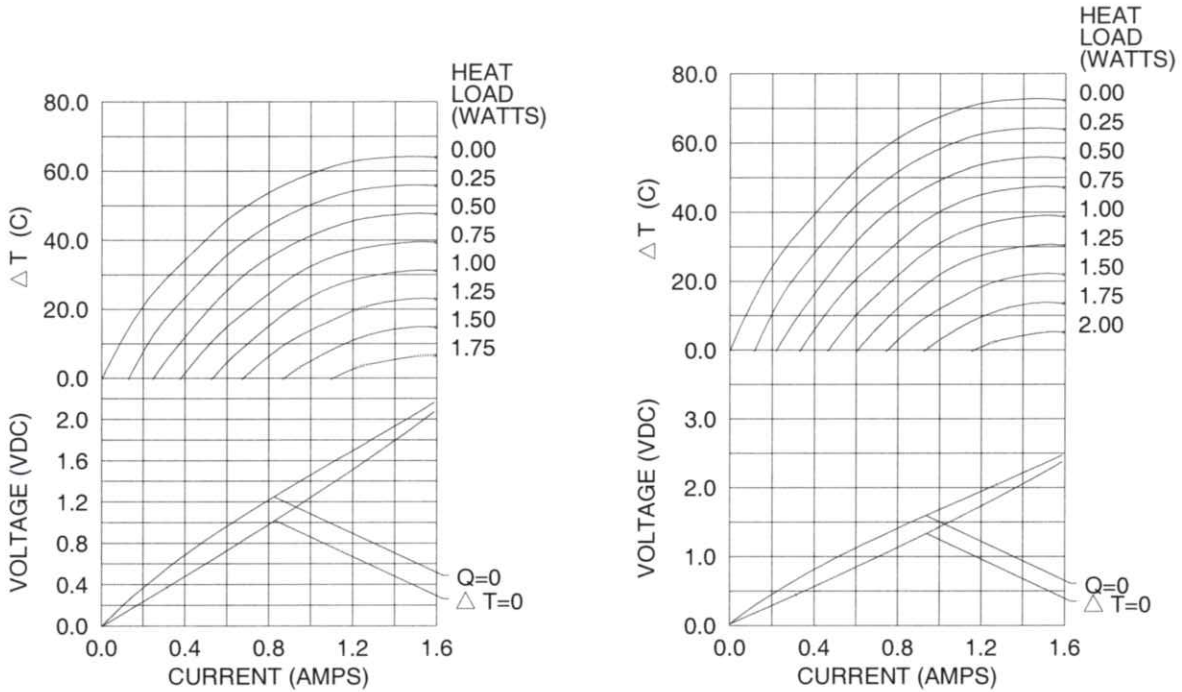
SP5025-01AC	TEHP Assy, Met. Exterior, pretinned w/118°C top/183°C base
SP5025-02AC	TEHP Assy, Met. Exterior, pretinned w/183°C base only
SP5025-03AC	TEHP Assy, No Met. Exterior
SP5025-04AC	TEHP Assy, Met. Exterior, pretinned w/118°C top/183°C base: shorter leads
SP5025-05AC	TEHP Assy, Met. Exterior, pretinned w/118°C top/183°C base: vertical leads
SP5025-06AC	TEHP Assy, Met. Exterior, pretinned w/183°C top and base
SP5025-07AC	TEHP Assy, Met. Exterior, pretinned w/146°C top/183°C base

Exterior surfaces may be tinned with various solder configurations depending on customer requirements.

For information regarding additional ordering options available. Please contact a Marlow engineering representative.

Performance Curves

Environment: One atmosphere dry nitrogen



For performance information in a vacuum or with hot side temperatures other than 27°C or 85°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.



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