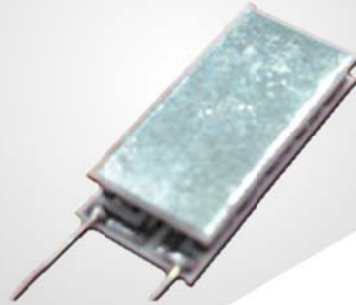




Technical Data Sheet for SP5424

Single-Stage Thermoelectric Module

PRODUCT FEATURES

- Rated operating temperature of 85°C.
- Ceramic Material: Aluminum Oxide
- Height dimension includes metallization and excludes solder.

NOMINAL PERFORMANCE IN NITROGEN

Hot Side Temperature (°C)	27	85
ΔT_{max} (°C):	67.0	86.0
Q_{max} (watts):	3.4	4.0
I_{max} (amps):	1.8	1.7
V_{max} (vdc):	2.95	3.68
AC Resistance (ohms):	1.39	--

ORDERING OPTIONS

Model Number	Description
SP5424-04AC	Top and Base Metallized Exterior, Pretinned with 149°C solder

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.

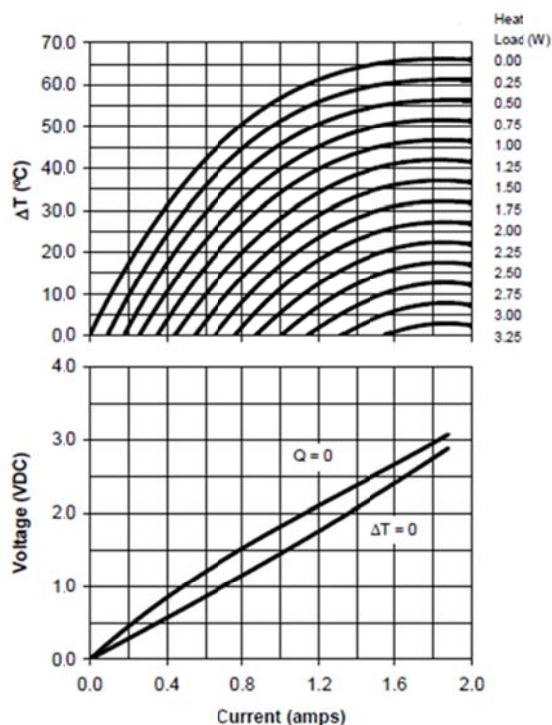
INSTALLATION

Recommended mounting methods: Soldering with metallized and pretinned ceramics. For additional information, please refer to our TEM Installation Guide.

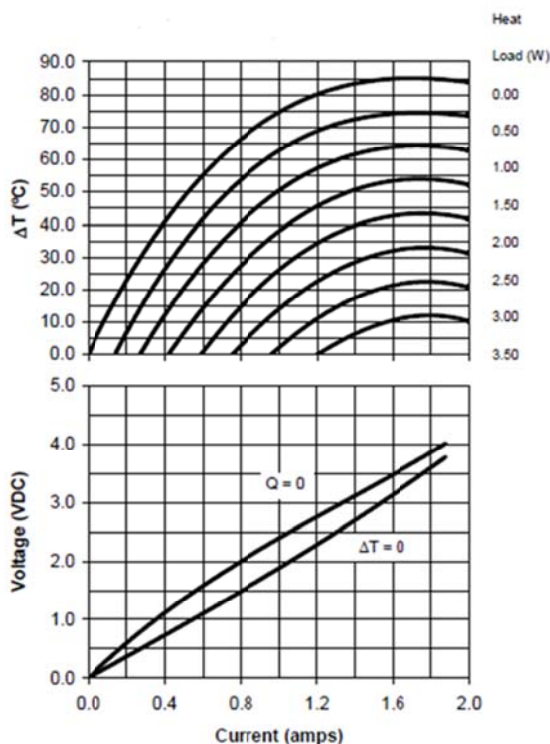
TYPICAL PERFORMANCE CURVES

ENVIRONMENT: ONE ATMOSPHERE DRY NITROGEN

Hot Side Temperature 27°C

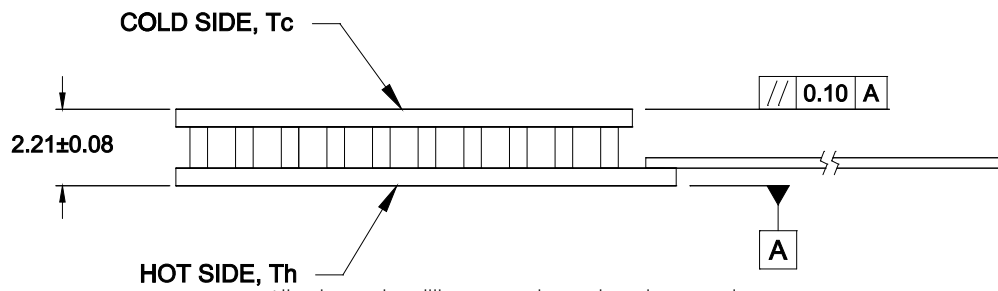
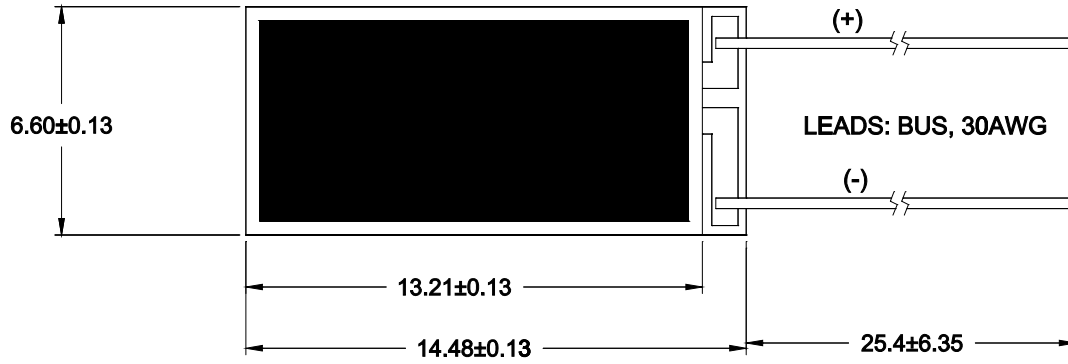


Hot Side Temperature 85°C



For performance information in a vacuum or with hot side temperatures other than 27°C or 85°C, contact one of our Applications Engineers at 877-627-5691.

MECHANICAL CHARACTERISTICS



All units are in millimeters unless otherwise stated.

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.