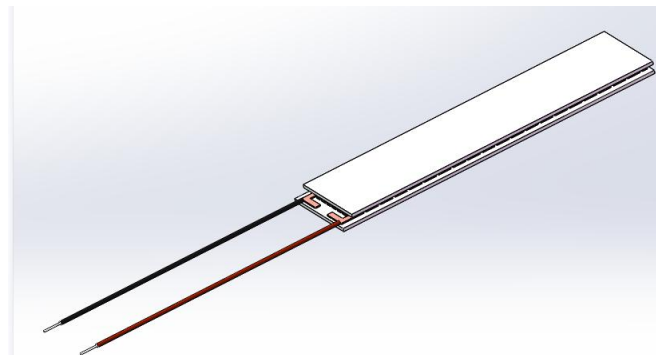




Technical Data Sheet for TCR-152080-16.8x77.0 S W17mm

REV 01

Single-Stage Thermoelectric Module



PERFORMANCE PARAMETERS

Hot Side Temperature (°C)	25°C	50°C
Qmax (watts):	84.1	91.5
ΔT_{max} (°C):	68	75
I _{max} (amps):	8.1	8.0
V _{max} (vdc):	18.4	19.6
AC Resistance (ohms):	1.94	2.18

**Tolerances for thermal and electrical parameters are $\pm 10\%$.

PRODUCT FEATURES

- Precise temperature control
- Compact geometric sizes and lightweight
- Reliable solid state operation
- No sound or vibration
- Environmentally friendly
- DC operation
- RoHS REACH Compliant

MANUFACTURING SPECIFICATIONS

Sealer	RTV
Ceramic Plate	Blank Ceramics (96% Al ₂ O ₃)
Lead Wires	FEP 20AWG
Lead Wire Length	17 $\pm$ 3mm
Solder Melting Temp	232° C
Module Size (mm)	16.8 $\pm$ 0.5, 74.5 $\pm$ 0.5, 77.0 $\pm$ 0.5, 3.3 $\pm$ 0.03
Flatness/Parallelism	0.05 / 0.05 mm
Marking	P/N & S/N printed on cold side surface

OPERATION CAUTIONS

- For maximum reliability, storage and operation below 180°C in a non-condensing environment is recommended.
- Do not exceed I_{max} or V_{max} when operating module.
- To minimize thermal stress, use linear/proportional temperature control or a similar method rather than an ON/OFF method.
- Please consult P&N Technology for moisture and corrosion protection options.

INSTALLATION

For installation assistance, please consult P&N Technology.

P&N reserves the right to make product changes without notice.

P&N Technology (Xiamen) Co., Ltd.

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P&N Europe GmbH

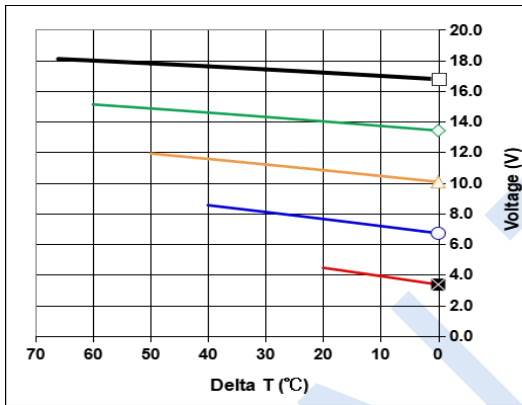
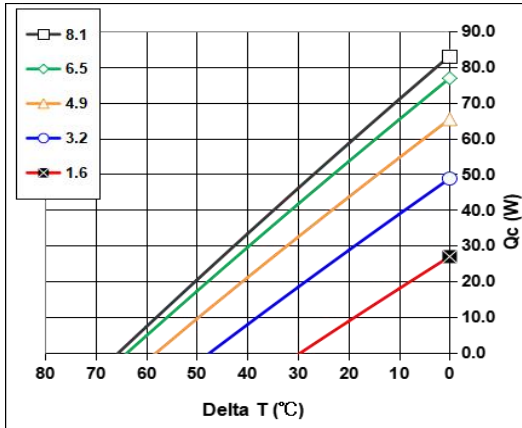
Joseph-Gänsler-Straße 10
86609 Donauwörth, Germany

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info@pn-europe.com

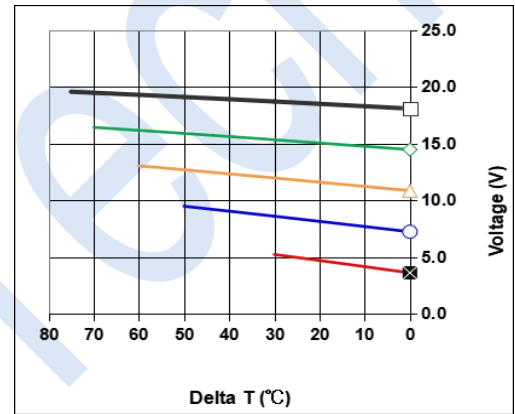
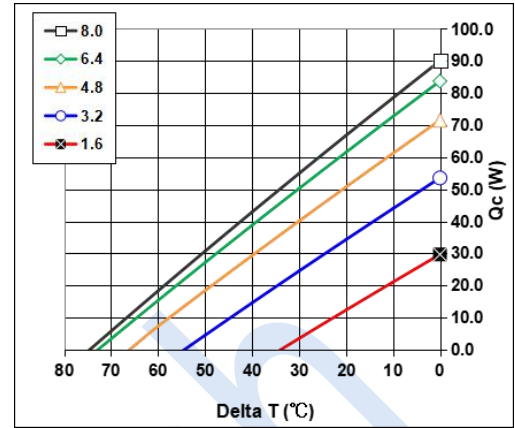
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PERFORMANCE CURVES

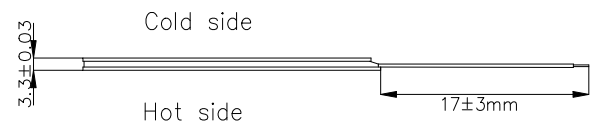
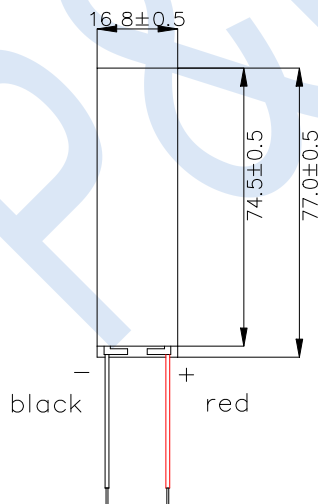
Hot Side Temperature 25°C



Hot Side Temperature 50°C



MECHANICAL DRAWING



**All units are in millimeters unless otherwise stated.

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