

Thermoelectric module TM - 241-1.0-3.9



Performance Data

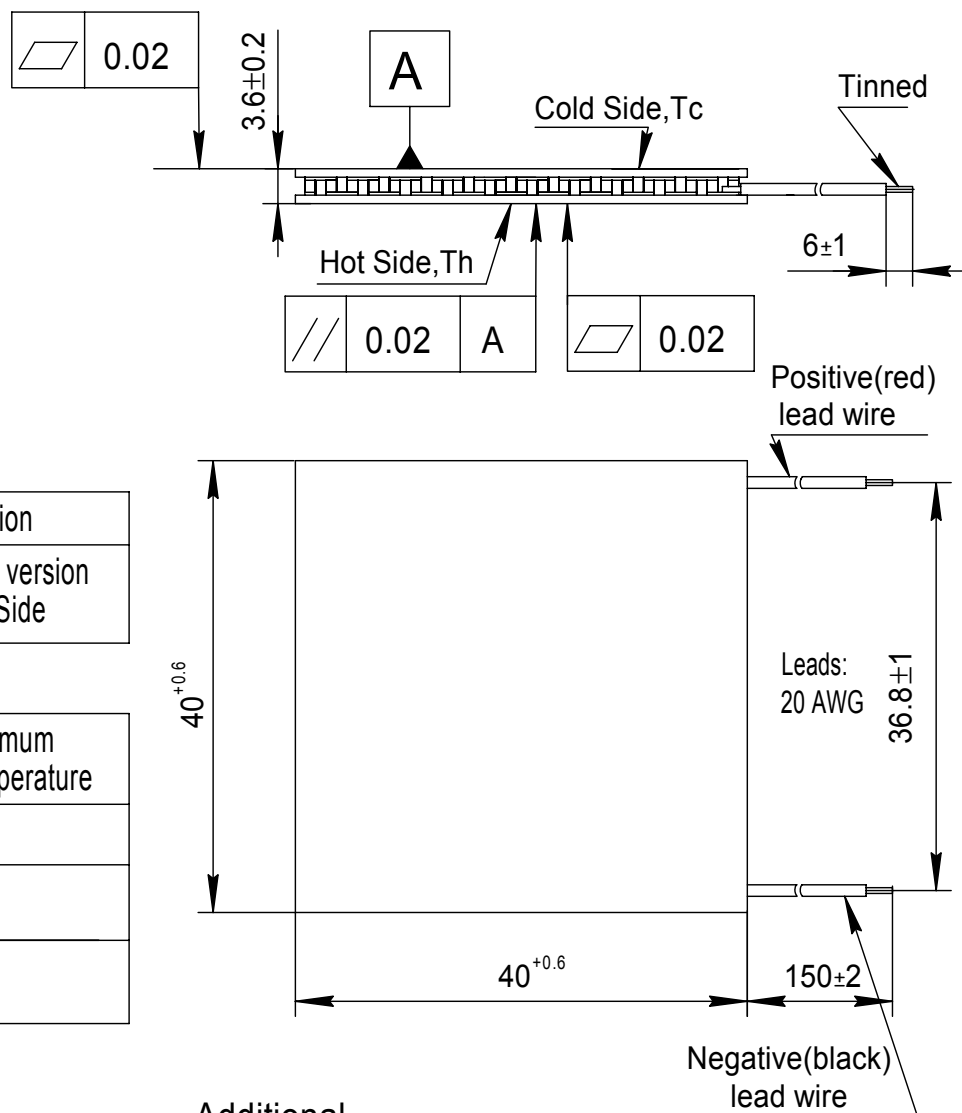
I _{max} (amps)	4.2	ΔT=ΔT _{max} . Th=25 ± 0.5 °C.
V _{max} (volts)	27.7	Th=25 ± 0.5 °C. ΔT=ΔT _{max} . I=I _{max} ± 0.1A
ΔT _{max} (°C)	71	Th=25 ± 0.5 °C. I=I _{max} ± 0.1A
Q _{max} (watts)	70	Th=T _c =25 ± 0.5 °C. I=I _{max} ± 0.1A
AC resistance (ohms)	5.8	25 ± 0.5 °C.

Environment: dry air, N₂

Tolerances for thermal and electrical parameters ± 10%

Drawing № ND 014.00.00

Dimensions in millimeters



Options

Model Number	Description
TM-241-1.0-3.9 M	High reliable version on Cold Side

Lead wire insulation	Module maximum processing temperature
PVC	90°C
Silicone	200°C
PTFE	200°C

Additional

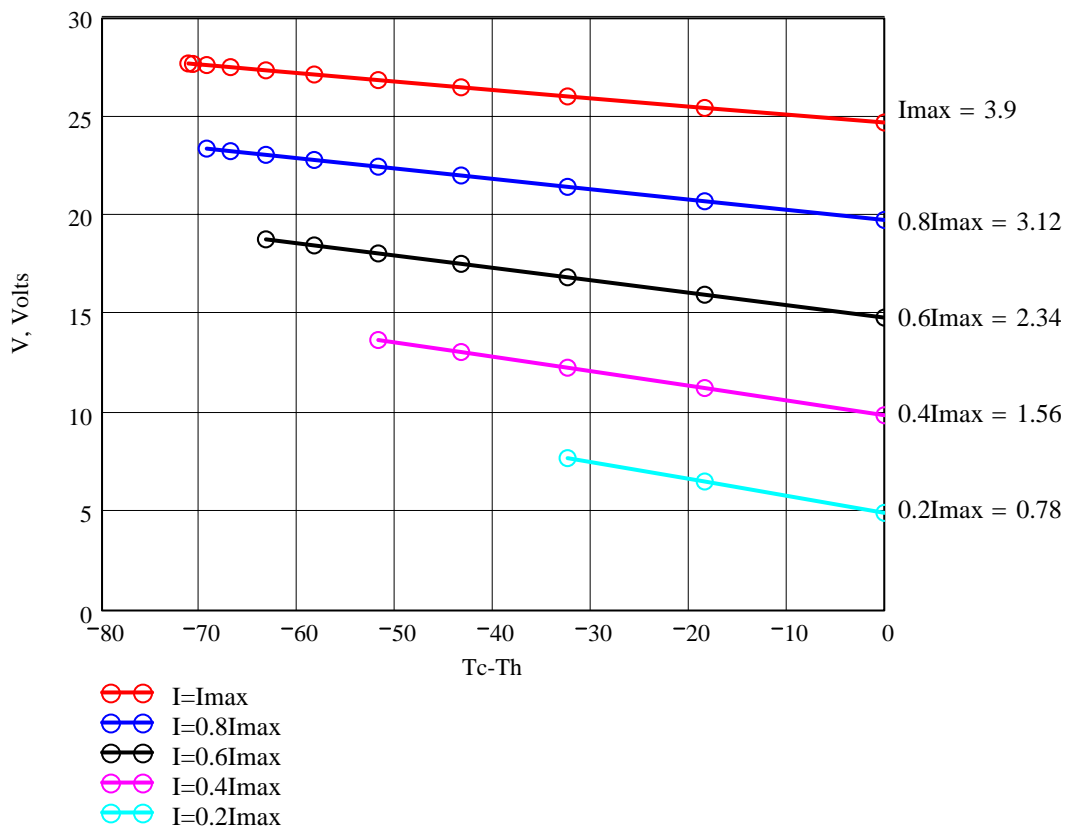
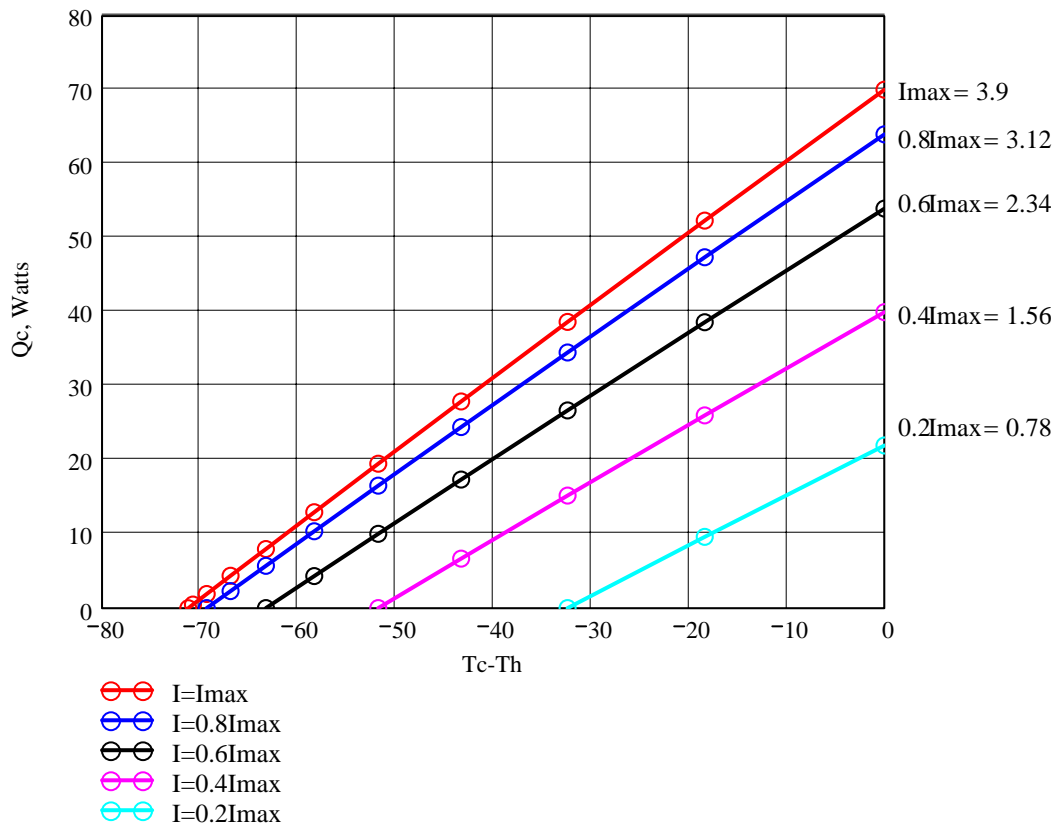
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics: Al₂O₃, white 96%
- Assembling Solder: SnSb, M.P. 232 °C ; SnCu M.P. 227 °C

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Performance graphs for TM-241-1.0-3.9 modules at $T_h=25\text{ }^\circ\text{C}$
 Environment: dry air, N_2



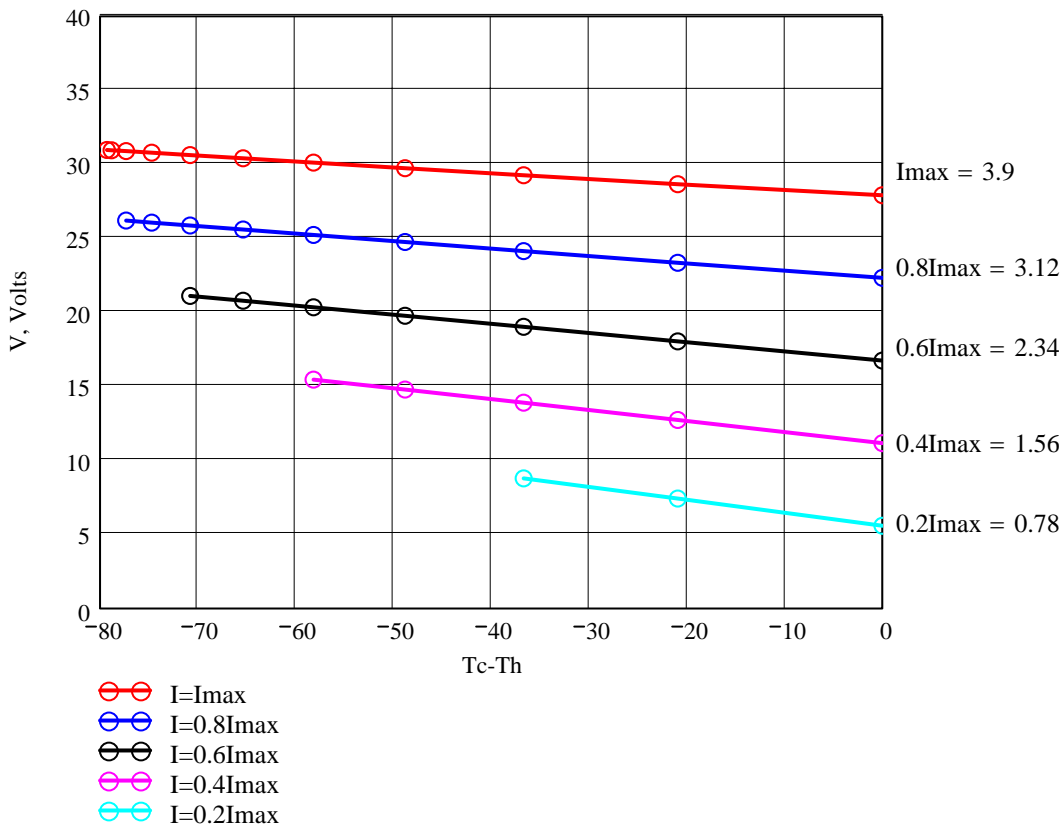
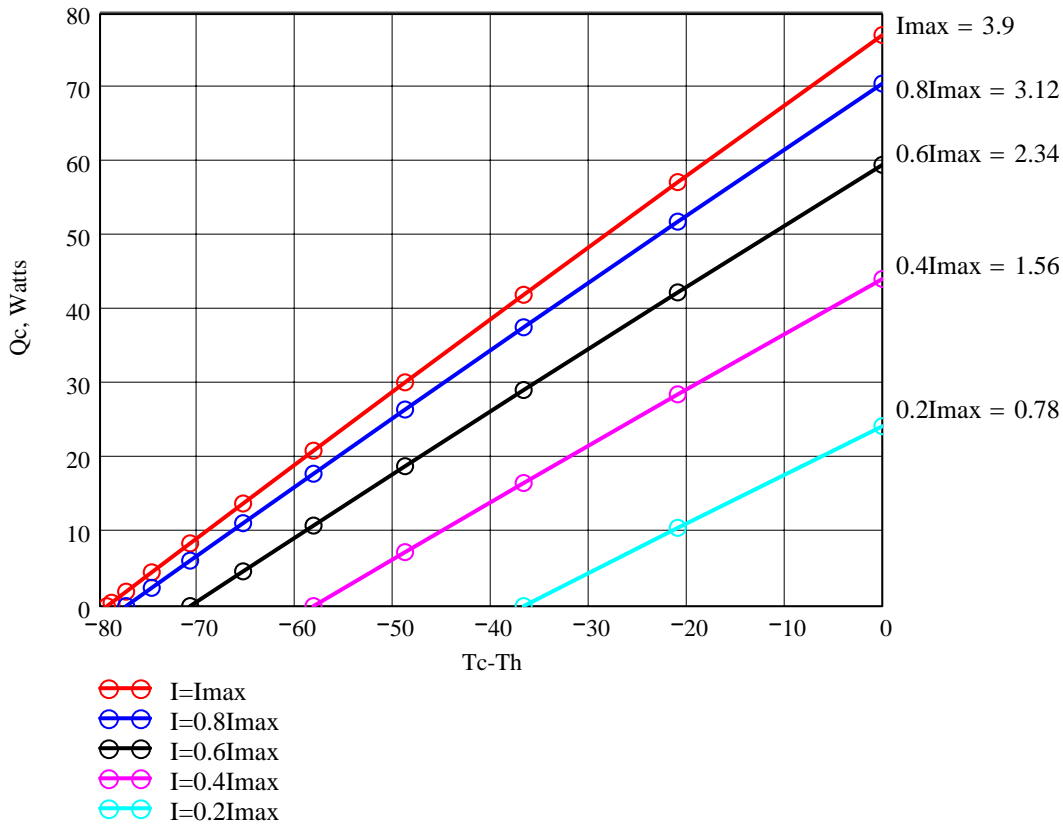
Q_c -refrigerating capacity at cold side of the module (Watts),

$\Delta T = T_c - T_h$ - temperature difference between cold and hot sides of the module ($^\circ\text{C}$),

I - DC current through the modules (Amps)

V -voltage applied to the module (Volts).

Performance graphs for TM-241-1.0-3.9 modules at Th=50 °C
 Environment: dry air, N₂



Q_c -refrigerating capacity at cold side of the module (Watts),
 ΔT=T_c-T_h - temperature difference between cold and hot sides of the module (°C),
 I - DC current through the modules (Amps)
 V -voltage applied to the module (Volts).