

Thermoelectric module TM - 241-1.4-8.5



Performance Data

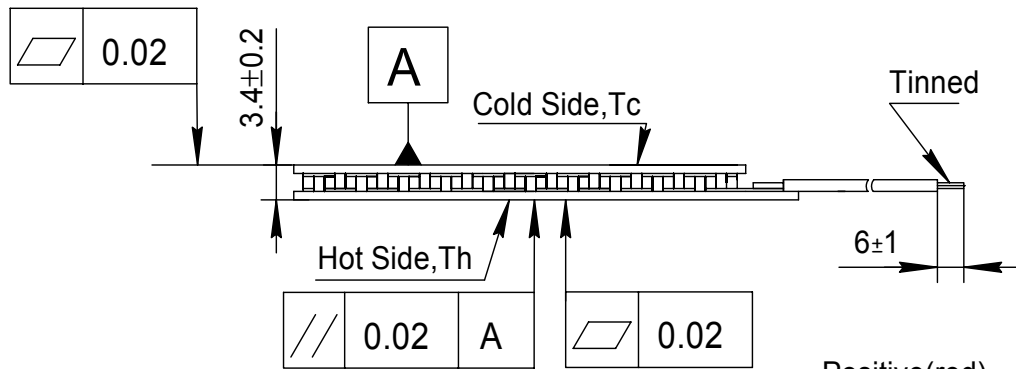
I _{max} (amps)	8.5	ΔT=ΔT _{max} . Th=25 ± 0.5 °C.
V _{max} (volts)	27.6	Th=25 ± 0.5 °C. ΔT=ΔT _{max} . I=I _{max} ± 0.1A
ΔT _{max} (°C)	71	Th=25 ± 0.5 °C. I=I _{max} ± 0.1A
Q _{max} (watts)	142	Th=T _c =25 ± 0.5 °C. I=I _{max} ± 0.1A
AC resistance (ohms)	2.9	25 ± 0.5 °C.

Environment: dry air, N₂

Tolerances for thermal and electrical parameters ± 10%

Drawing № ND 100.00.00

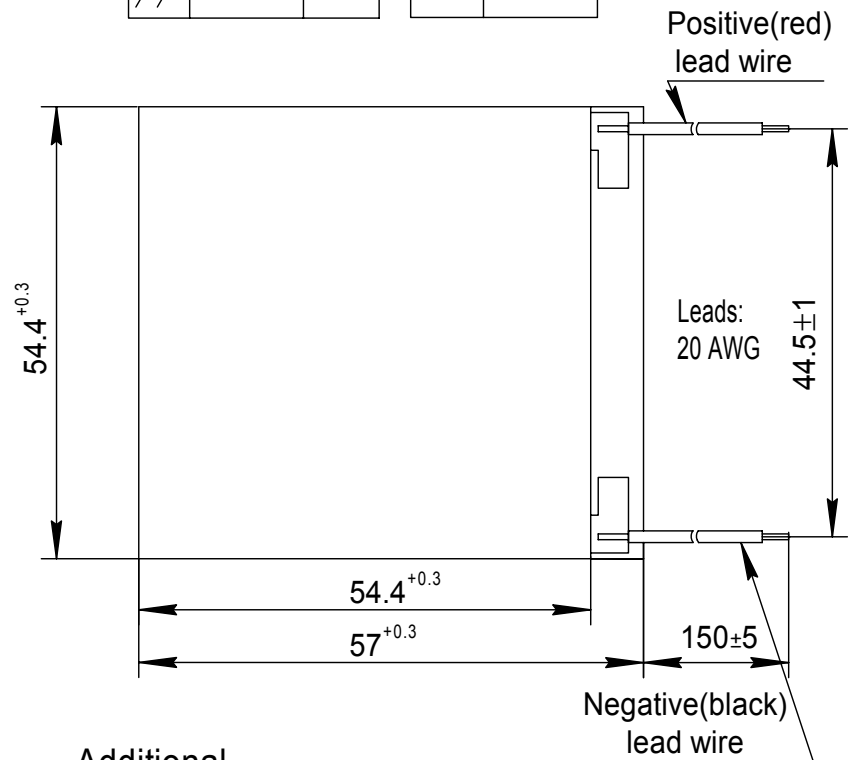
Dimensions in millimeters



Options

Model Number	Description
TM-241-1.4-8.5 M	High reliable version on Cold Side
TM-241-1.4-8.5 MM	High reliable version on Hot Side and Cold Side

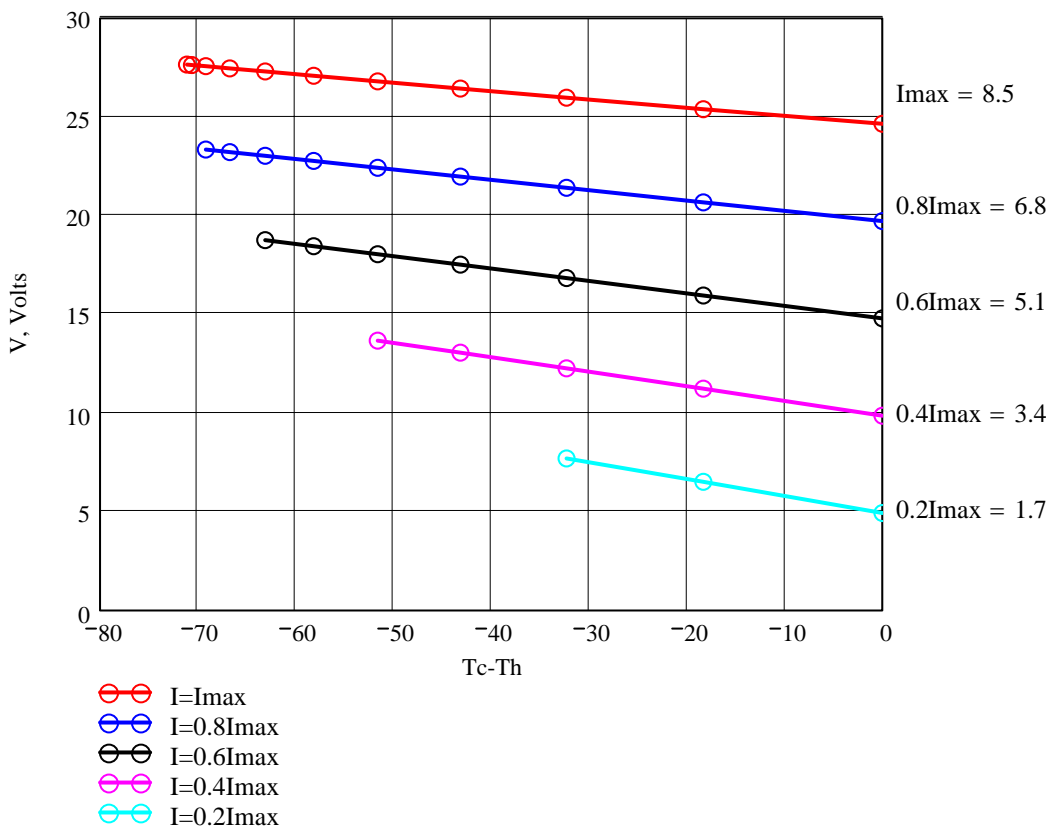
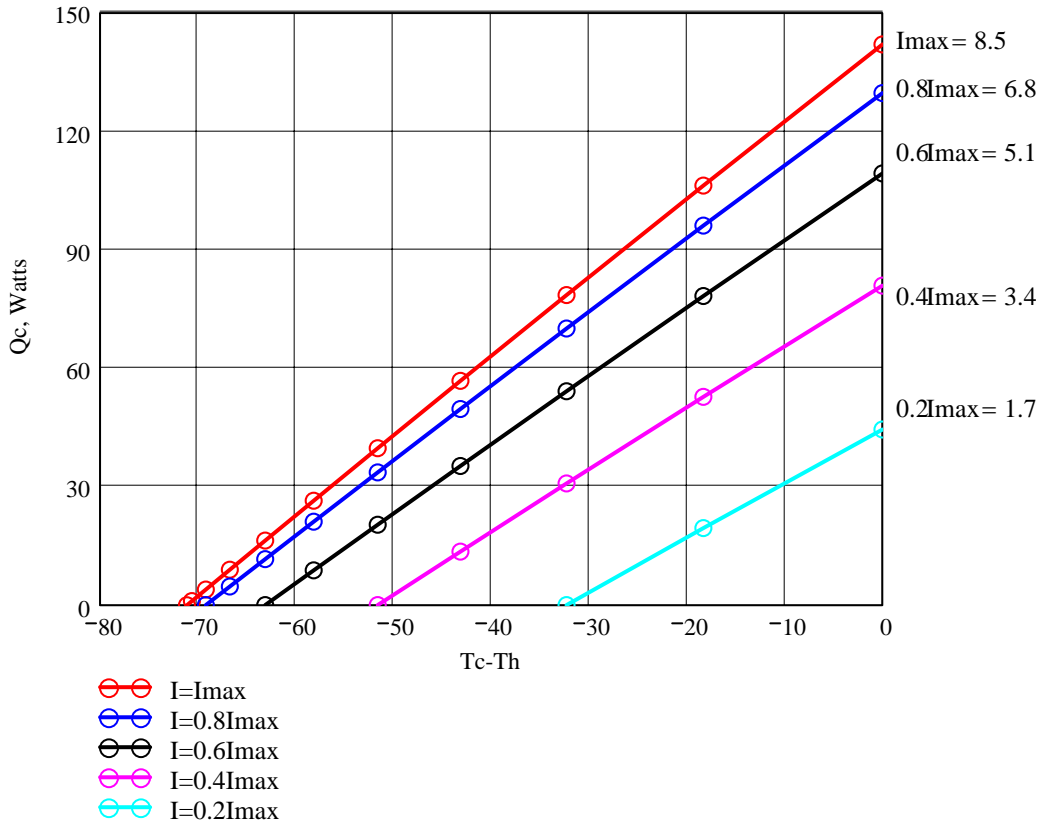
Lead wire insulation	Module maximum processing temperature
PVC	90°C
Silicone	200°C
PTFE	200°C



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

Performance graphs for TM-241-1.4-8.5 modules at $T_h=25\text{ }^\circ\text{C}$
 Environment: dry air, N_2



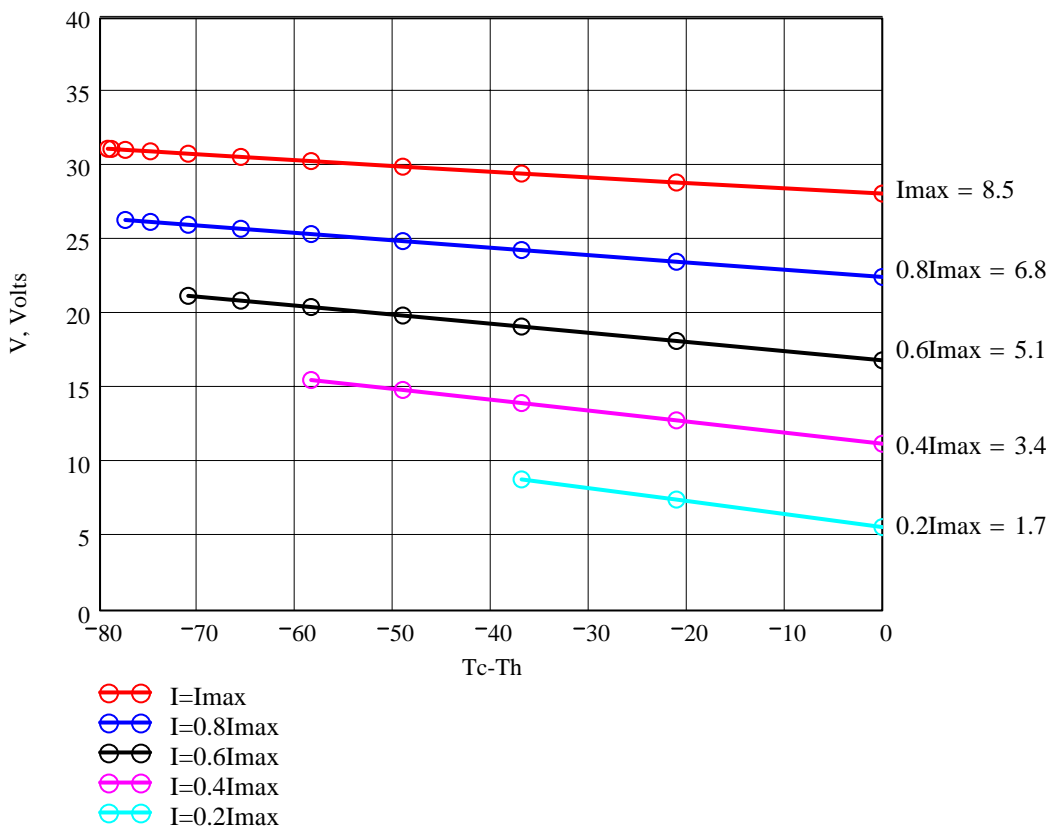
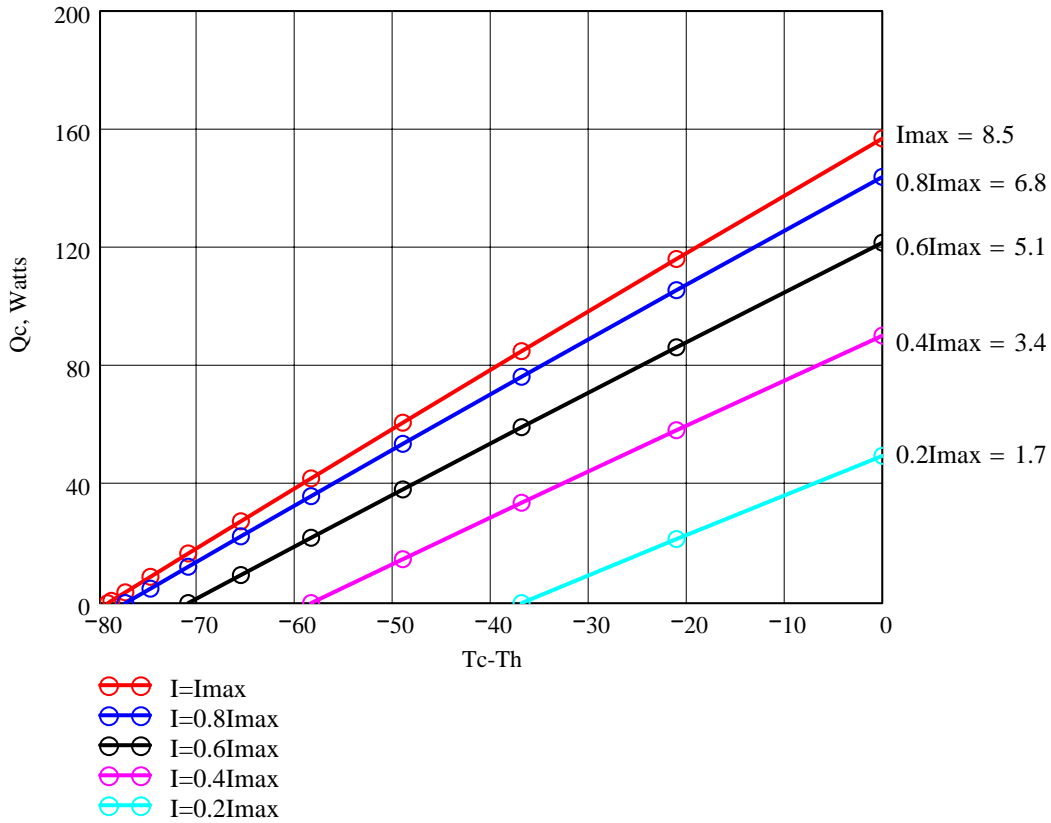
Q_c - refrigerating capacity at cold side of the module (Watts),

$\Delta T = T_c - T_h$ - 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-241-1.4-8.5 modules at $T_h=50\text{ }^\circ\text{C}$
 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 (°C),

I - DC current through the modules (Amps)

V - voltage applied to the module (Volts).