

# Thermoelectric module TM - 241-1.0-3.0



## Performance Data

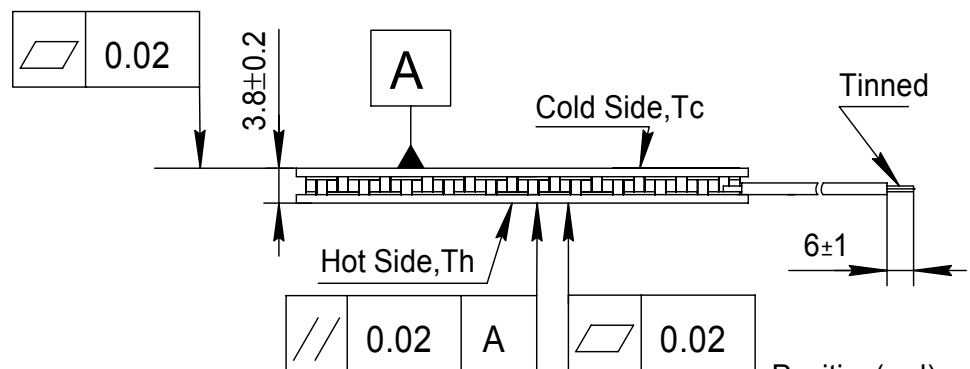
I <sub>max</sub> (amps)	3.3	ΔT=ΔT <sub>max</sub> . T <sub>h</sub> =25 ± 0.5 °C.
V <sub>max</sub> (volts)	27	T <sub>h</sub> =25 ± 0.5 °C. ΔT=ΔT <sub>max</sub> . I=I <sub>max</sub> ± 0.1A
ΔT <sub>max</sub> (°C)	71	T <sub>h</sub> =25 ± 0.5 °C. I=I <sub>max</sub> ± 0.1A
Q <sub>max</sub> (watts)	56.5	T <sub>h</sub> =T <sub>c</sub> =25 ± 0.5 °C. I=I <sub>max</sub> ± 0.1A
AC resistance (ohms)	7.2	25 ± 0.5 °C.

Environment: dry air, N<sub>2</sub>

Tolerances for thermal and electrical parameters ± 10%

Drawing № ND 015.00.00

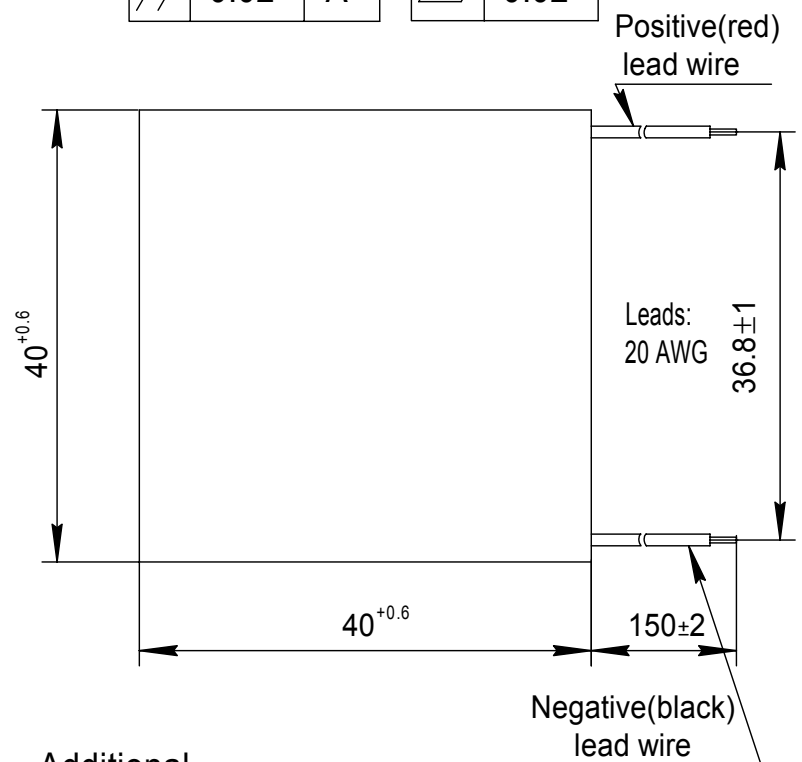
Dimensions in millimeters



## Options

Model Number	Description
TM-241-1.0-3.0 M	High reliable version on Cold Side

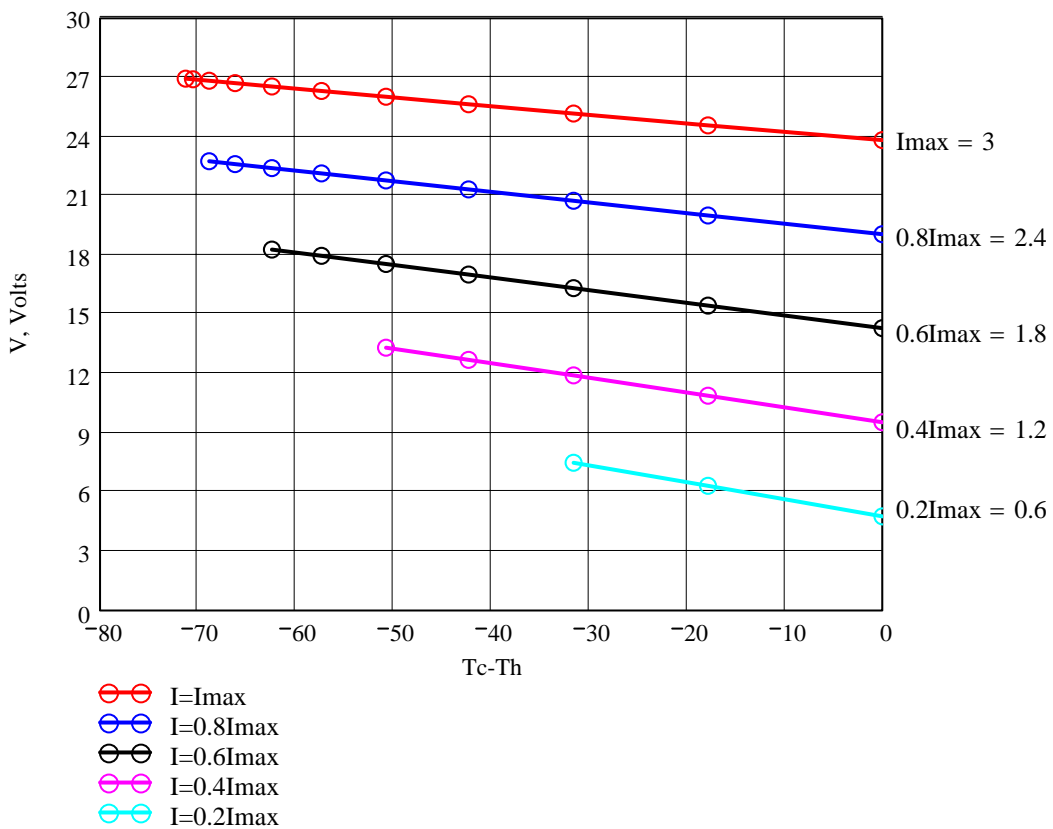
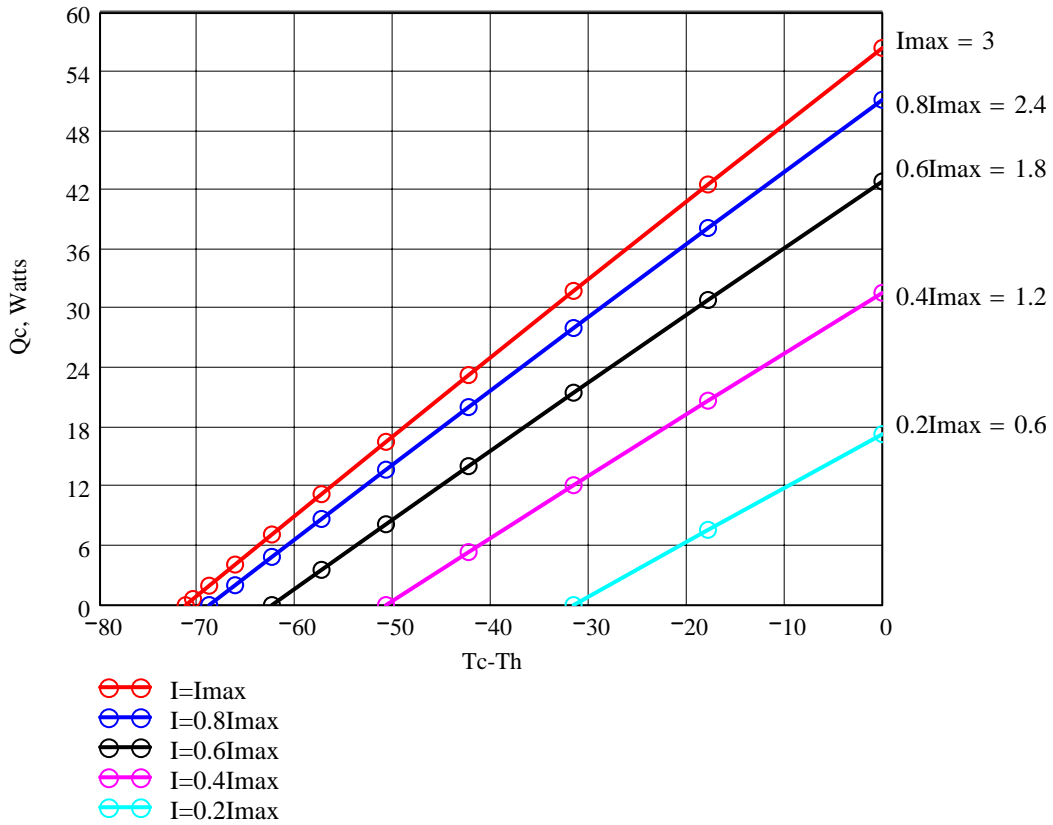
Lead wire insulation	Module maximum processing temperature
PVC	90°C
Silicone	200°C
PTFE	200°C



## Additional

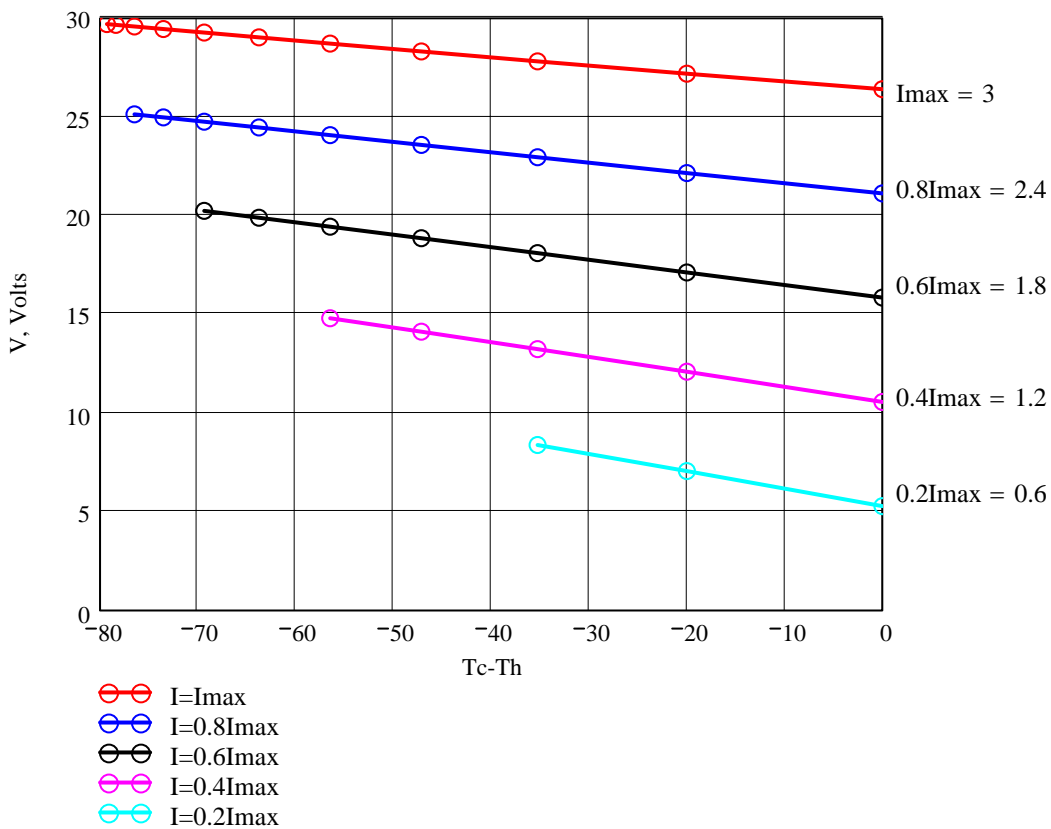
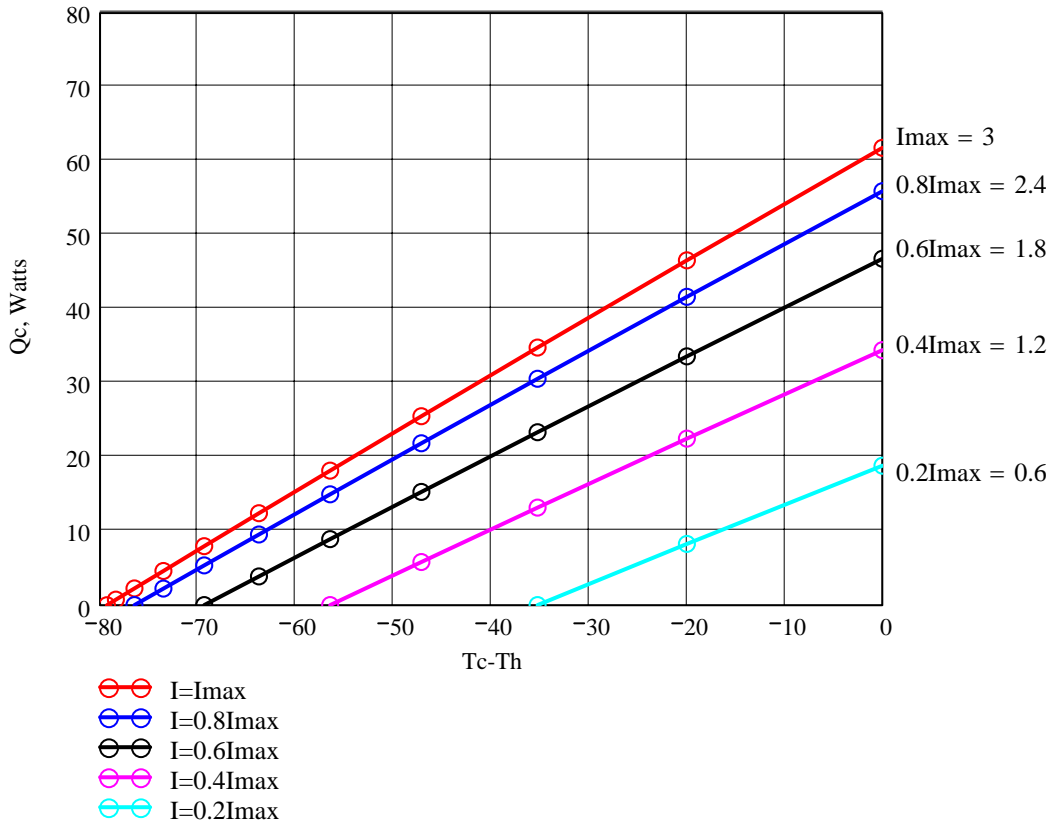
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics: Al<sub>2</sub>O<sub>3</sub>, white 96%
- Assembling Solder: SnSb, M.P. 232 °C ; SnCu M.P. 227 °C

Performance graphs for TM-241-1.0-3.0 modules at Th=25 °C  
 Environment: dry air, N<sub>2</sub>



Q<sub>c</sub> -refrigerating capacity at cold side of the module (Watts),  
 ΔT=T<sub>c</sub>-T<sub>h</sub> - 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).

Performance graphs for TM-241-1.0-3.0 modules at Th=50 °C  
 Environment: dry air, N<sub>2</sub>



Q<sub>c</sub> -refrigerating capacity at cold side of the module (Watts),  
 ΔT=T<sub>c</sub>-T<sub>h</sub> - 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).