Thermoelectric module TM - 63-1.0-3.9

Perfomance Data

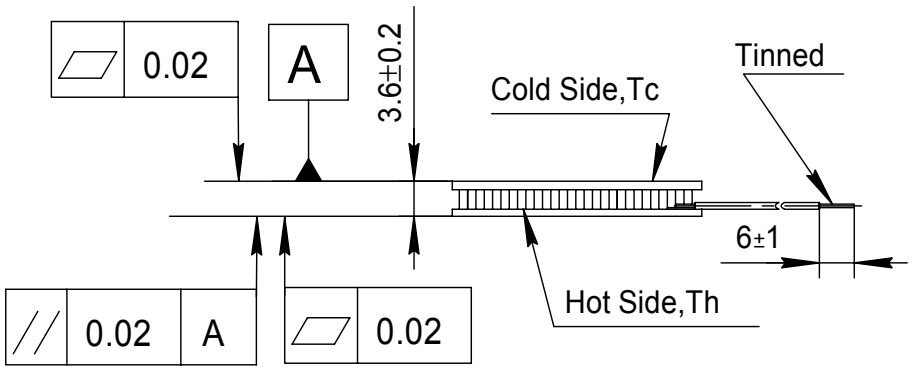
Imax (amps)	4.2	ΔT=ΔTmax. Th=25 ± 0.5 °C.
Vmax (volts)	7.2	Th=25 ± 0.5 °C. ΔT=ΔTmax. I=Imax ± 0.1A
ΔTmax (°C)	71	Th=25 ± 0.5 °C. I=Imax ± 0.1A
Qmax (watts)	18.3	Th=Tc=25 ± 0.5 °C. I=Imax ± 0.1A
AC resistance (ohms)	1.5	25 ± 0.5 °C.

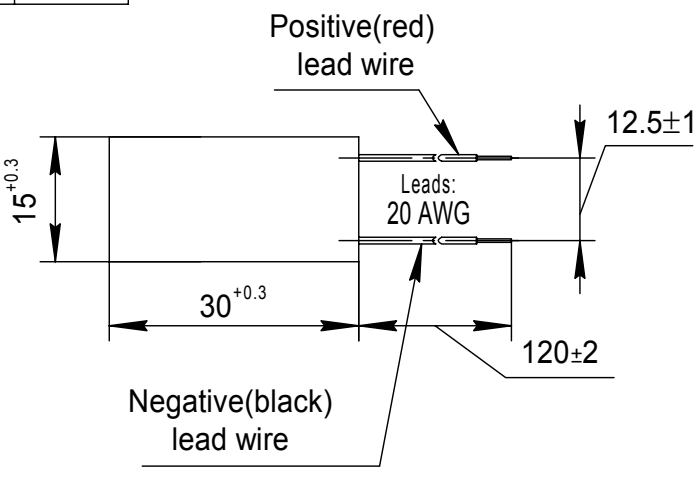
Environment: dry air, N_2

Tolerances for thermal and electrical parameters ± 10%

Drawing № ND 004.00.00

Dimensions in millimeters





Options

Model Number	Description
TM-63-1.0-3.9 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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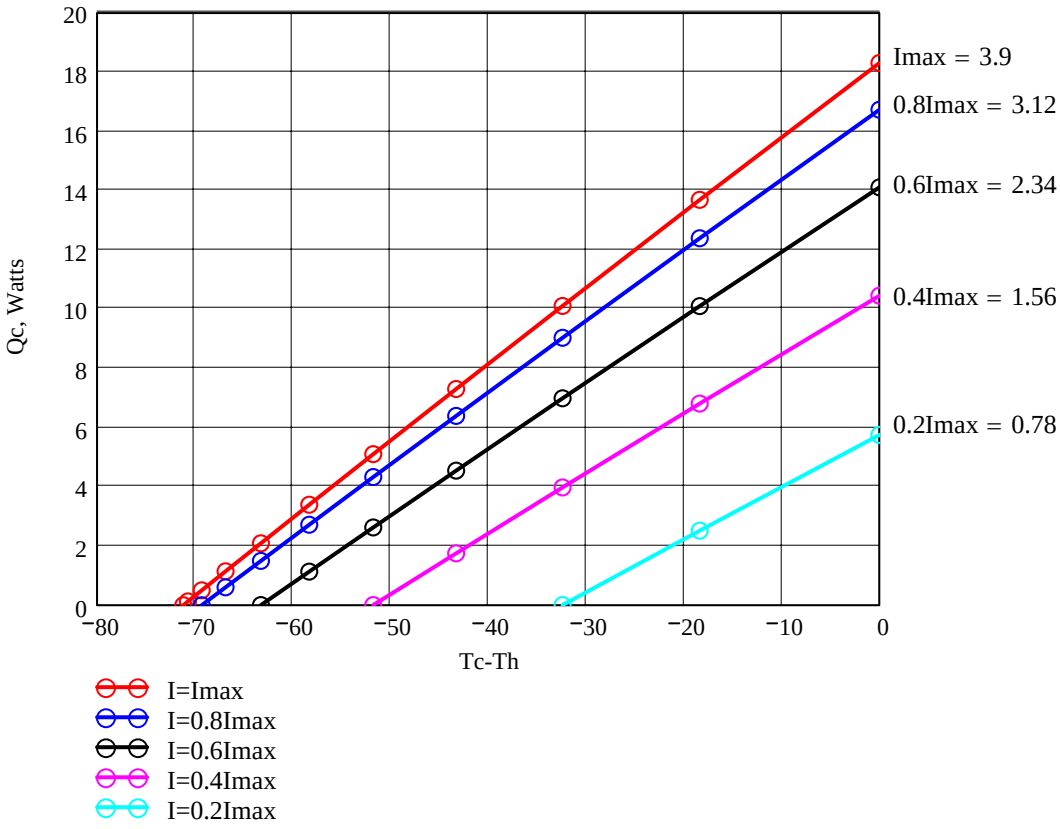
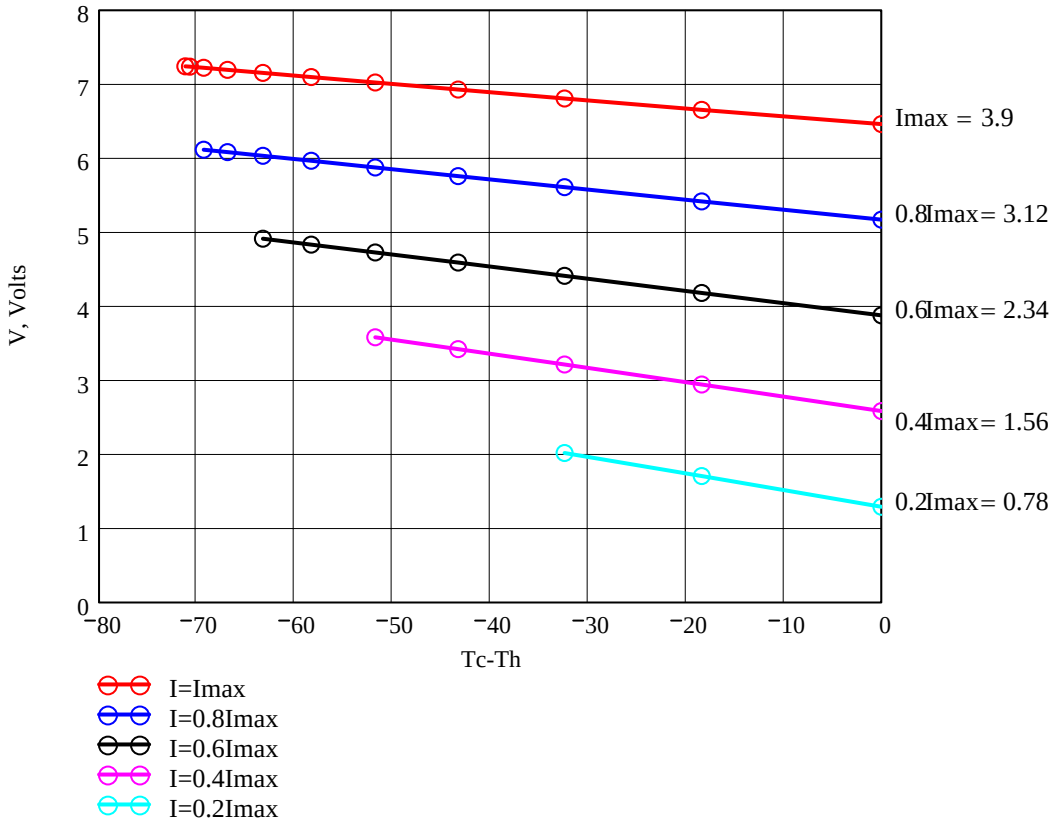
Performance graphs for TM-63-1.0-3.9 modules at Th=25 ºC
Environment: dry air, N_2

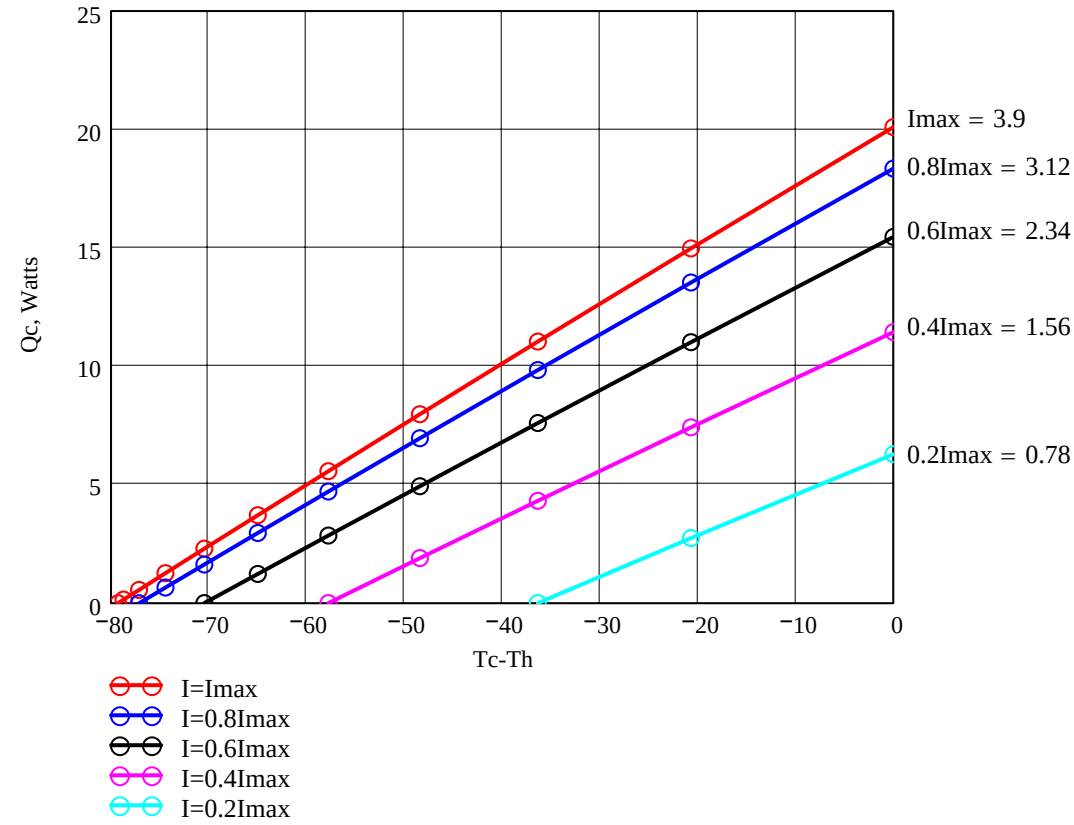


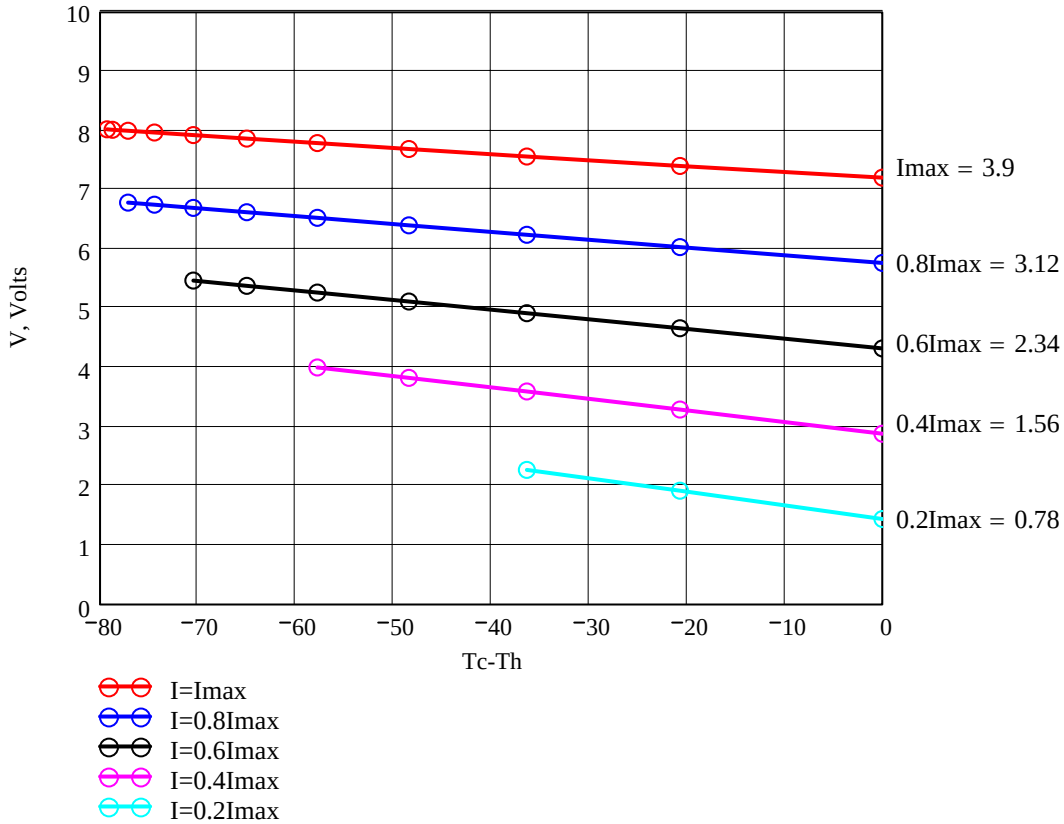


Qc -refrigerating capacity at cold side of the module (Watts),

ΔT=Tc-Th - temperature difference between cold and hot sides of the module (ºC),
I - DC current through the modules (Amps)
V -voltage applied to the module (Volts).

Performance graphs for TM-63-1.0-3.9 modules at Th=50 ºC
Environment: dry air, N_2





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

ΔT=Tc-Th - temperature difference between cold and hot sides of the module (ºC),
I - DC current through the modules (Amps)
V -voltage applied to the module (Volts).