

# Thermoelectric module TM - 71-1.4-3.7



## Performance Data

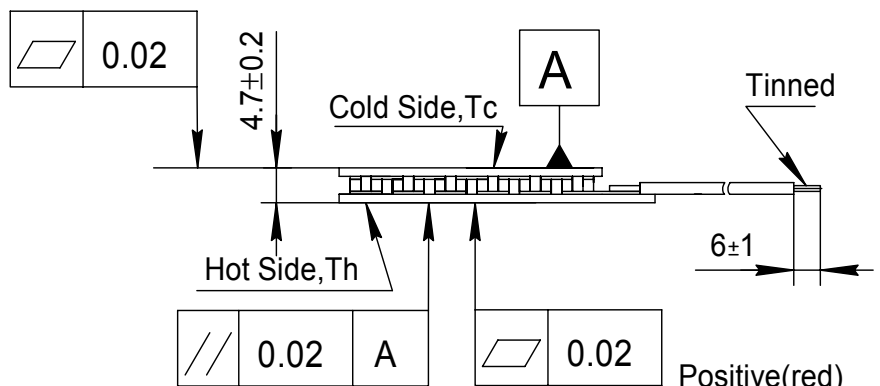
$I_{max}$ (amps)	4	$\Delta T = \Delta T_{max}$ . $T_h = 25 \pm 0.5$ °C.
$V_{max}$ (volts)	8.2	$T_h = 25 \pm 0.5$ °C. $\Delta T = \Delta T_{max}$ . $I = I_{max} \pm 0.1A$
$\Delta T_{max}$ (°C)	71	$T_h = 25 \pm 0.5$ °C. $I = I_{max} \pm 0.1A$
$Q_{max}$ (watts)	19.5	$T_h = T_c = 25 \pm 0.5$ °C. $I = I_{max} \pm 0.1A$
AC resistance (ohms)	1.8	$25 \pm 0.5$ °C.

Environment: dry air,  $N_2$

Tolerances for thermal and electrical parameters  $\pm 10\%$

Drawing № ND 062.00.00

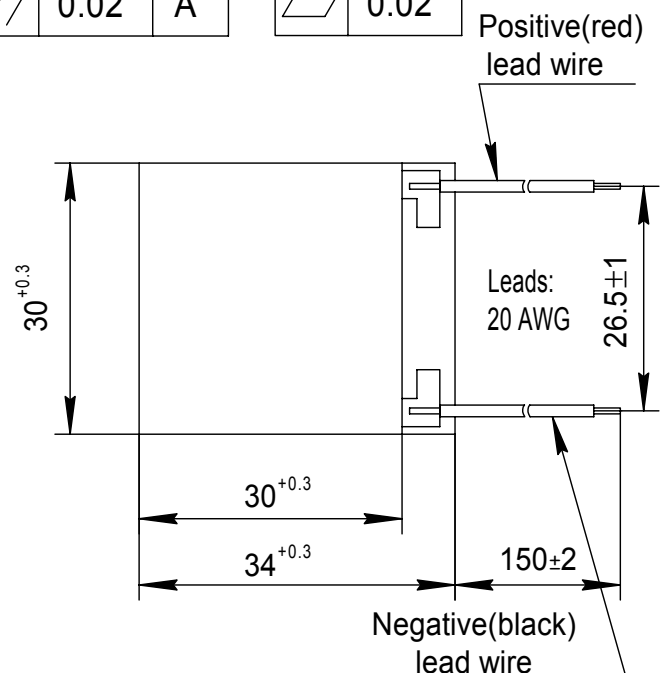
Dimensions in millimeters



## Options

Model Number	Description
TM-71-1.4-3.7 M	High reliable version on Cold Side

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



## Additional

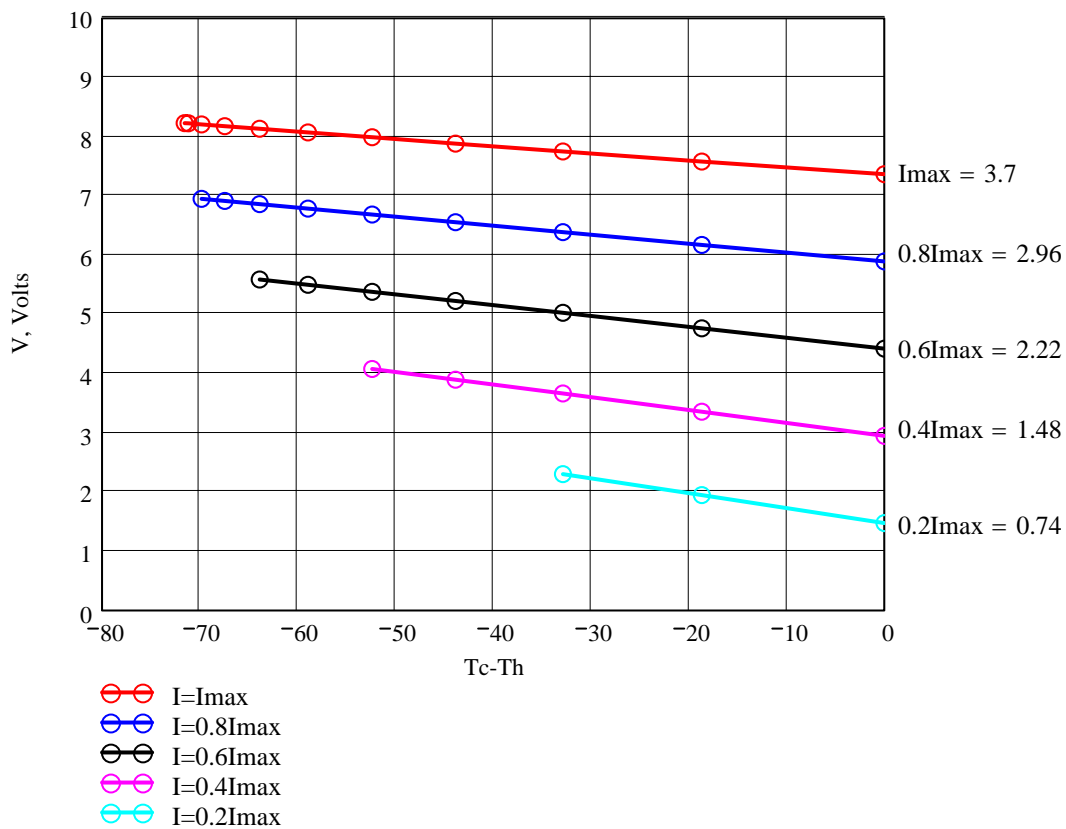
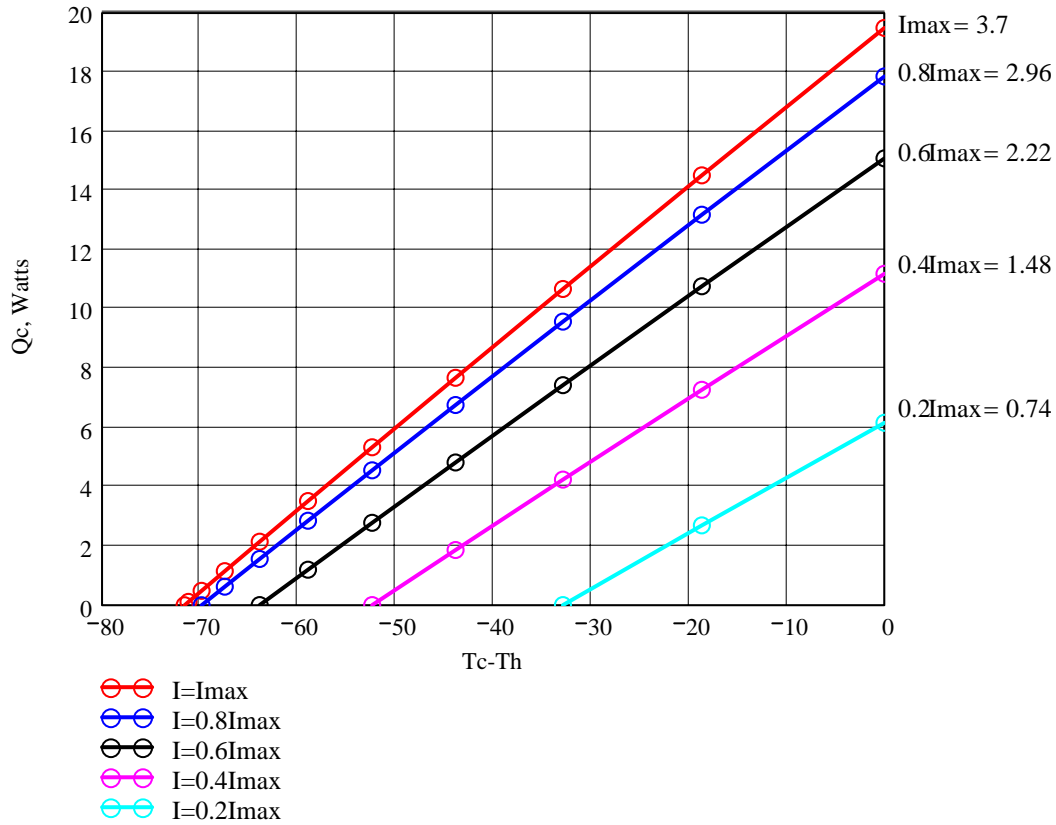
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics:  $Al_2O_3$ , white 96%
- Assembling Solder: SnSb, M.P. 232 °C ; SnCu M.P. 227 °C

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Performance graphs for TM-71-1.4-3.7 modules at Th=25 °C  
 Environment: dry air, N<sub>2</sub>



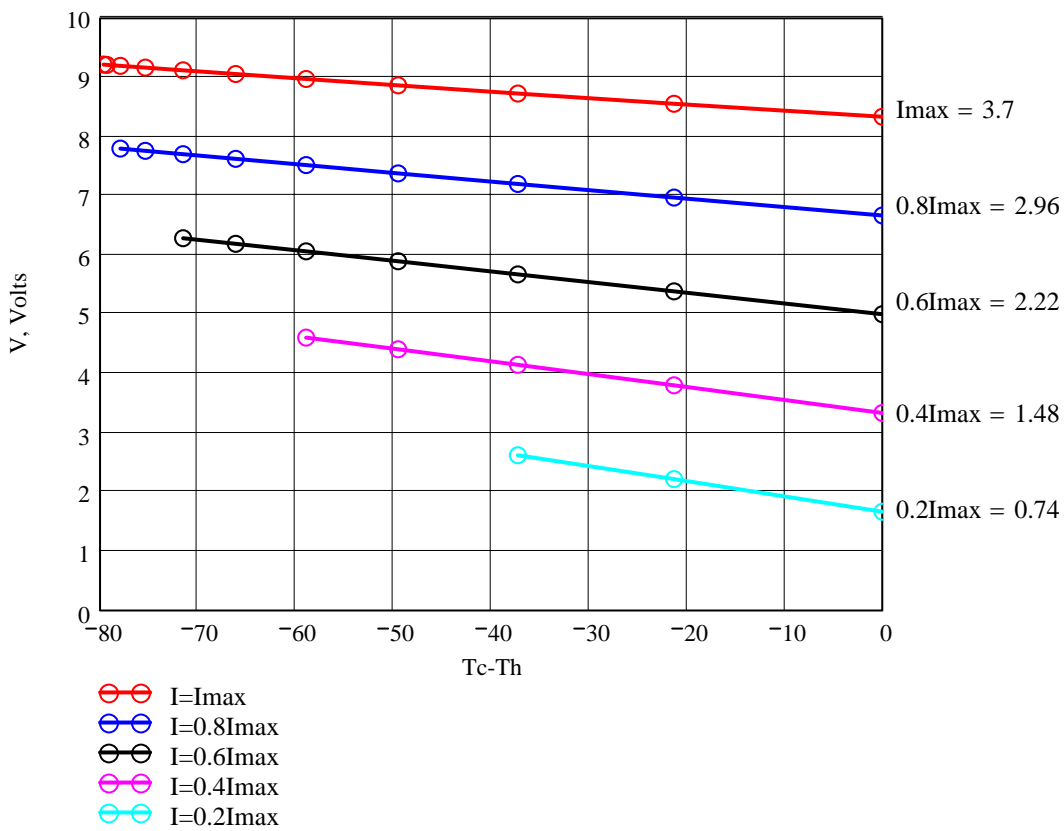
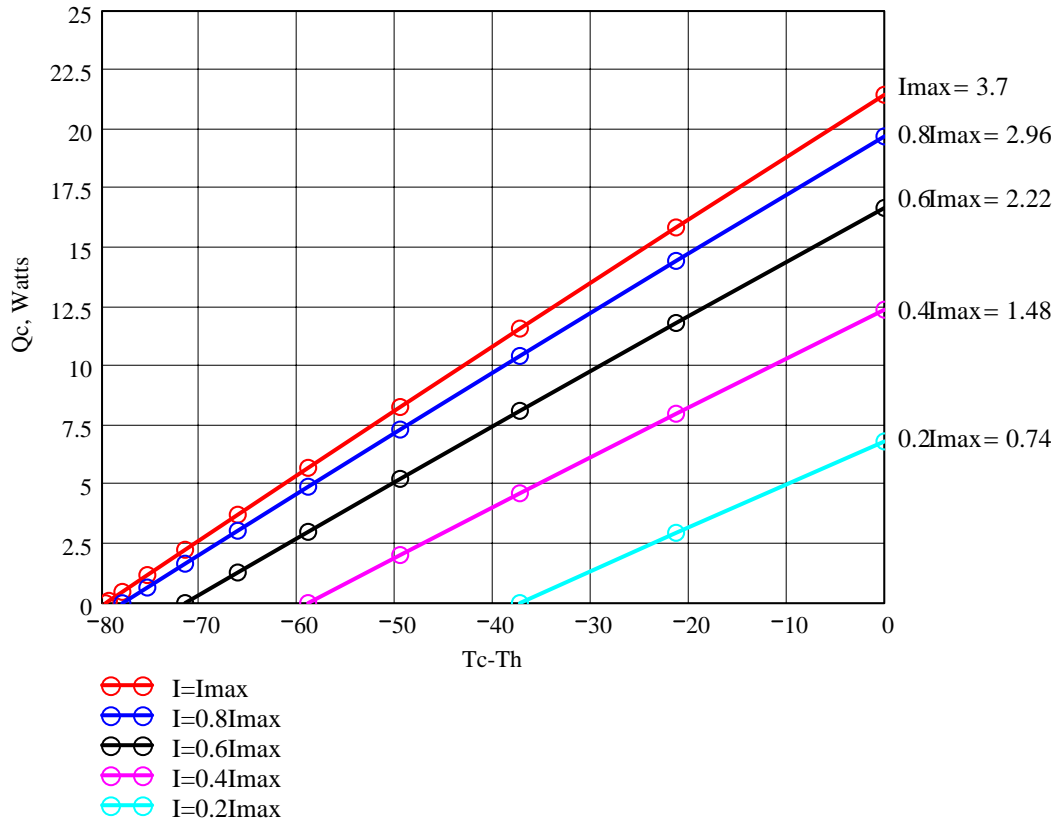
Q<sub>c</sub> - refrigerating capacity at cold side of the module (Watts),

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-71-1.4-3.7 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).