

# Thermoelectric module TM - 17-1.4-6.0



## Performance Data

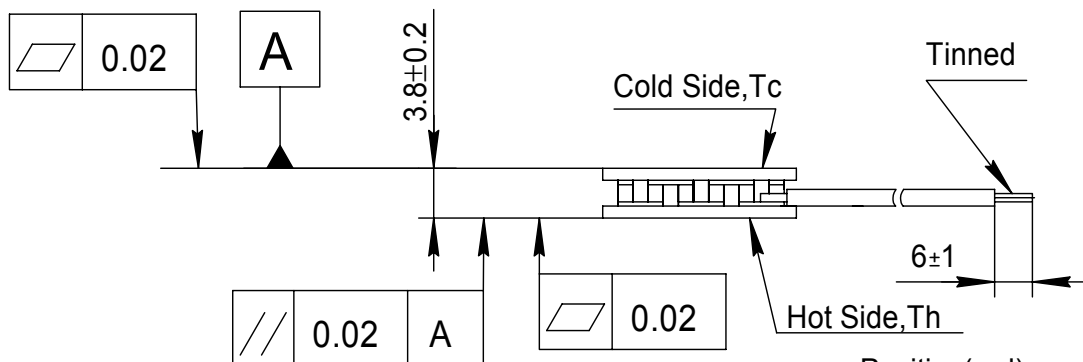
$I_{max}$ (amps)	6.6	$\Delta T = \Delta T_{max}$ . $T_h = 25 \pm 0.5 \text{ }^\circ\text{C}$ .
$V_{max}$ (volts)	2	$T_h = 25 \pm 0.5 \text{ }^\circ\text{C}$ . $\Delta T = \Delta T_{max}$ . $I = I_{max} \pm 0.1\text{A}$
$\Delta T_{max}$ ( $^\circ\text{C}$ )	71	$T_h = 25 \pm 0.5 \text{ }^\circ\text{C}$ . $I = I_{max} \pm 0.1\text{A}$
$Q_{max}$ (watts)	7.5	$T_h = T_c = 25 \pm 0.5 \text{ }^\circ\text{C}$ . $I = I_{max} \pm 0.1\text{A}$
AC resistance (ohms)	0.27	$25 \pm 0.5 \text{ }^\circ\text{C}$ .

Environment: dry air,  $N_2$

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

Drawing № ND 022.00.00

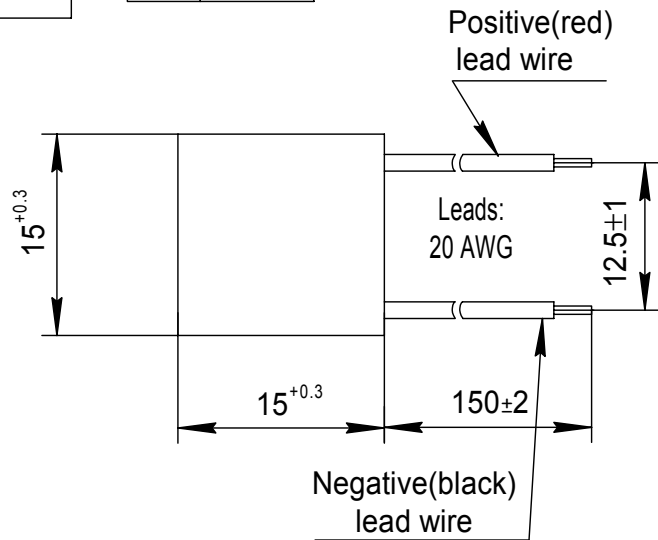
Dimensions in millimeters



## Options

Model Number	Description
TM-17-1.4-6.0 M	High reliable version on Cold Side

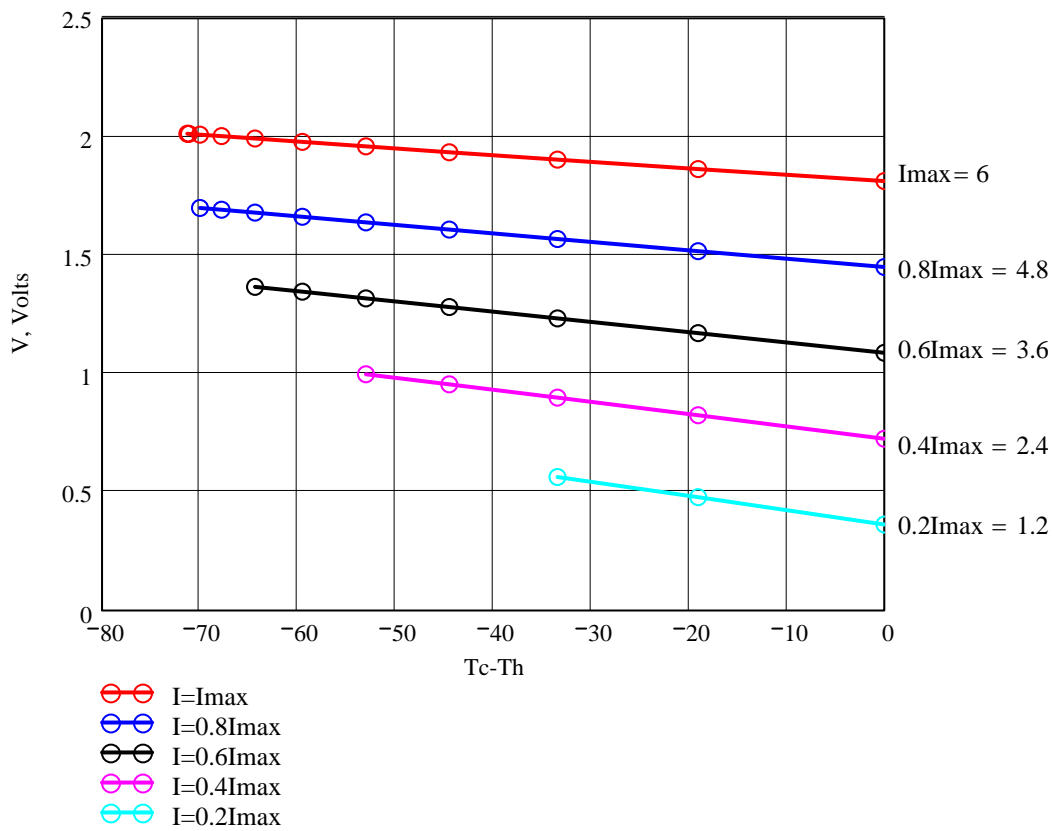
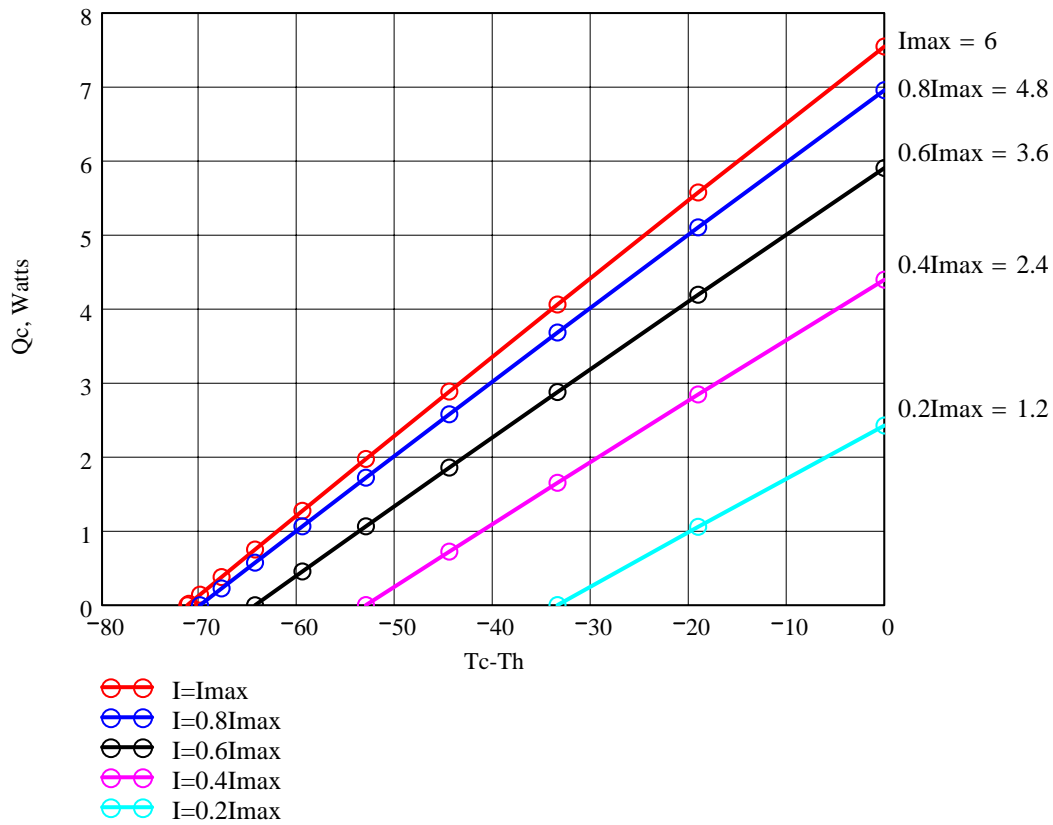
Lead wire insulation	Module maximum processing temperature
PVC	90 $^\circ\text{C}$
Silicone	200 $^\circ\text{C}$
PTFE	200 $^\circ\text{C}$



## Additional

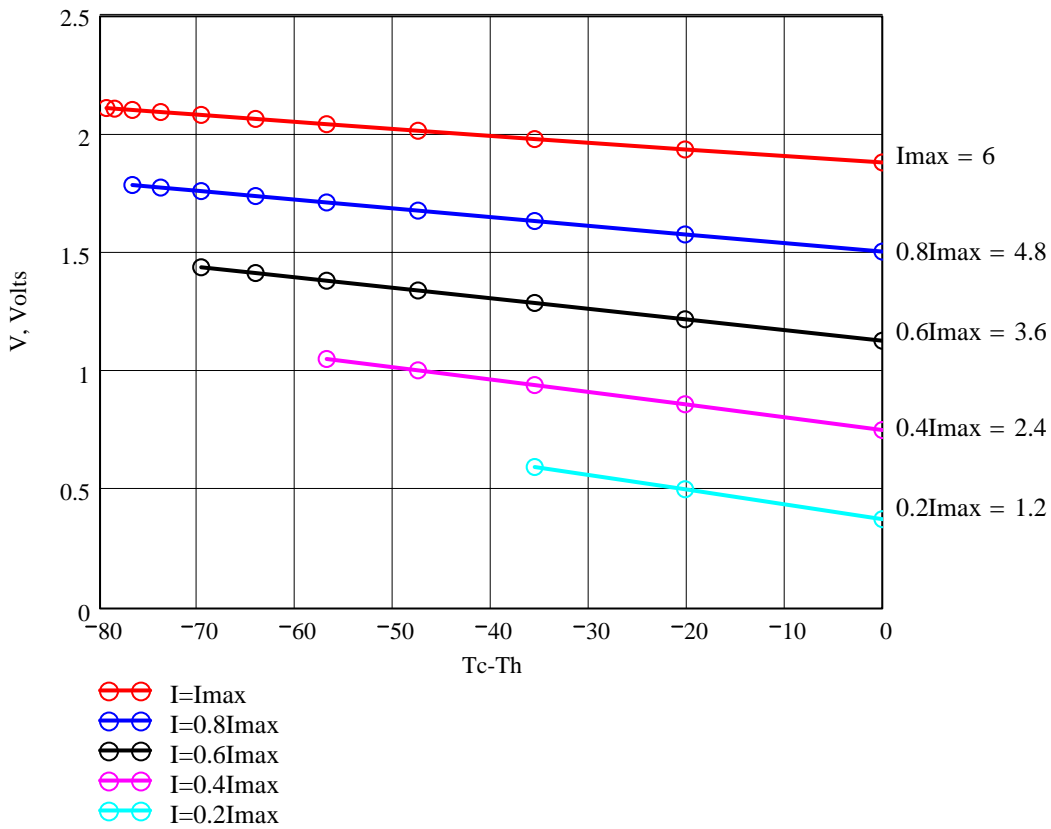
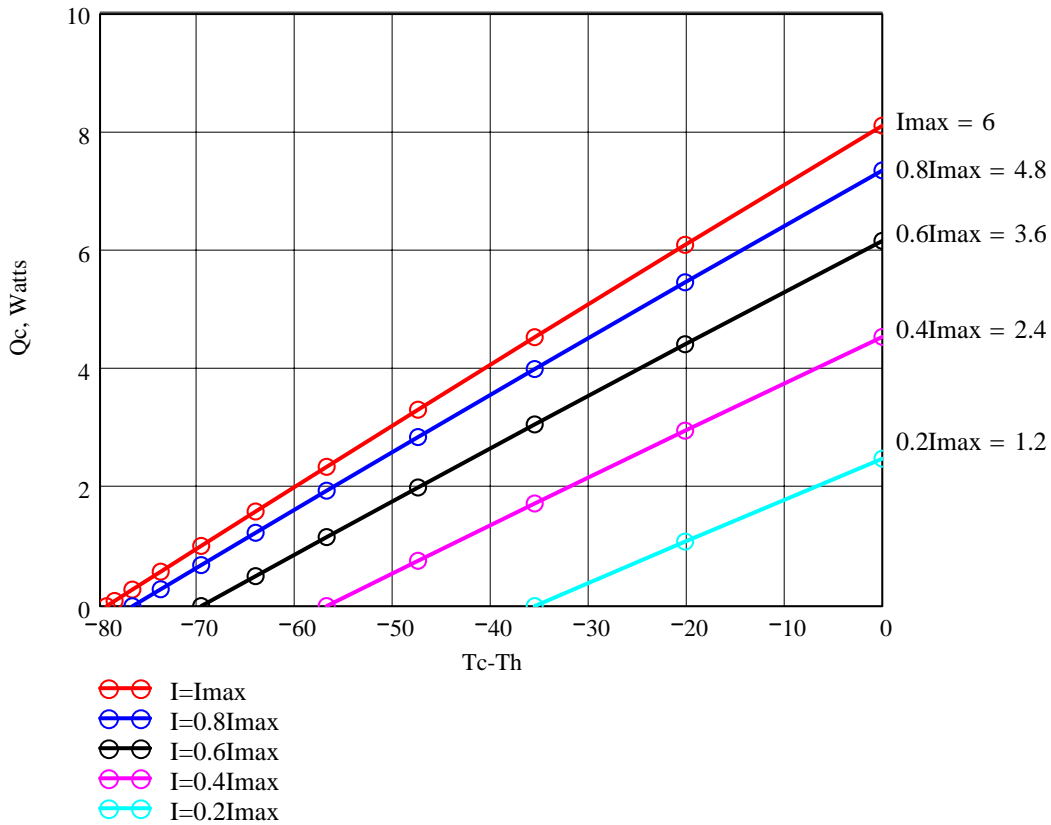
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics:  $Al_2O_3$ , white 96%
- Assembling Solder: SnSb, M.P. 232  $^\circ\text{C}$  ; SnCu M.P. 227  $^\circ\text{C}$

Performance graphs for TM-17-1.4-6.0 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-17-1.4-6.0 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),  
 $\Delta T = T_c - T_h$  - 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).