

# Thermoelectric module TM - 71-1.4-6.0



## Performance Data

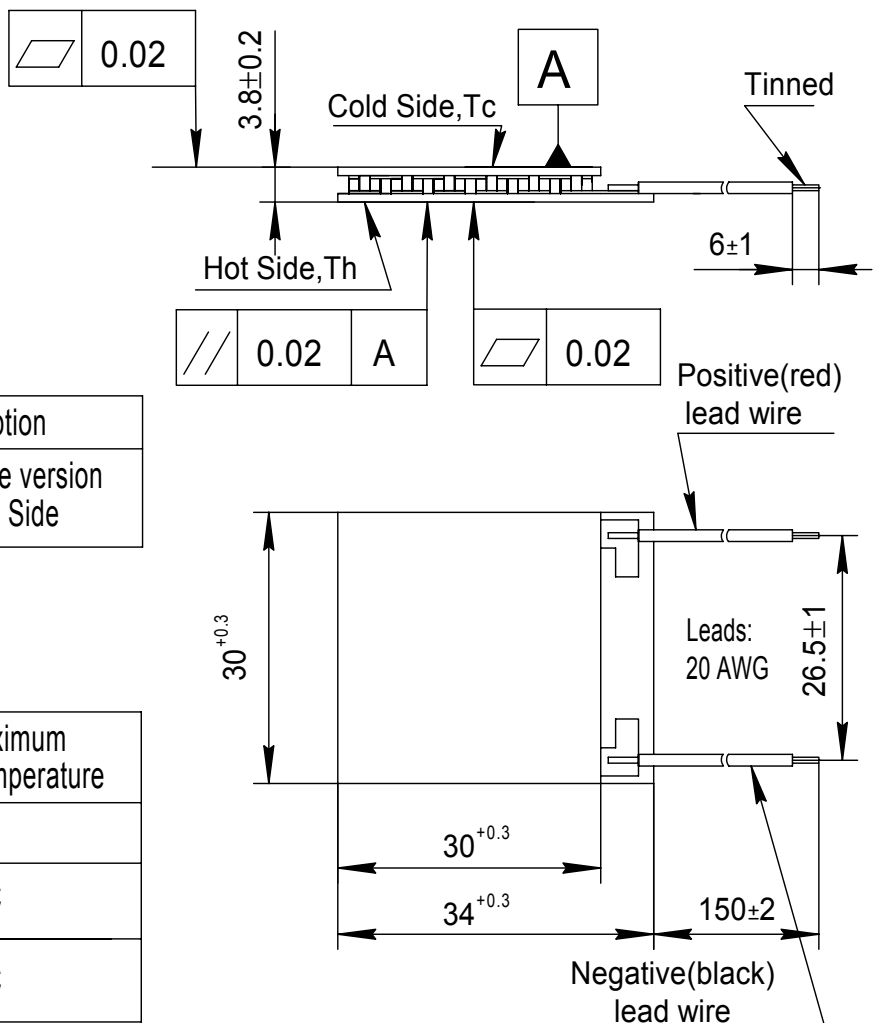
|                          |      |   |
|--------------------------|------|---|
| I <sub>max</sub> (amps)  | 6.5  | $\Delta T = \Delta T_{max}$ . $T_h = 25 \pm 0.5$ °C.                        |
| V <sub>max</sub> (volts) | 8.3  | $T_h = 25 \pm 0.5$ °C. $\Delta T = \Delta T_{max}$ . $I = I_{max} \pm 0.1A$ |
| $\Delta T_{max}$ (°C)    | 71   | $T_h = 25 \pm 0.5$ °C. $I = I_{max} \pm 0.1A$                               |
| Q <sub>max</sub> (watts) | 31.4 | $T_h = T_c = 25 \pm 0.5$ °C. $I = I_{max} \pm 0.1A$                         |
| AC resistance (ohms)     | 1.2  | $25 \pm 0.5$ °C.  |

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

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

Drawing № ND 063.00.00

Dimensions in millimeters



## Options

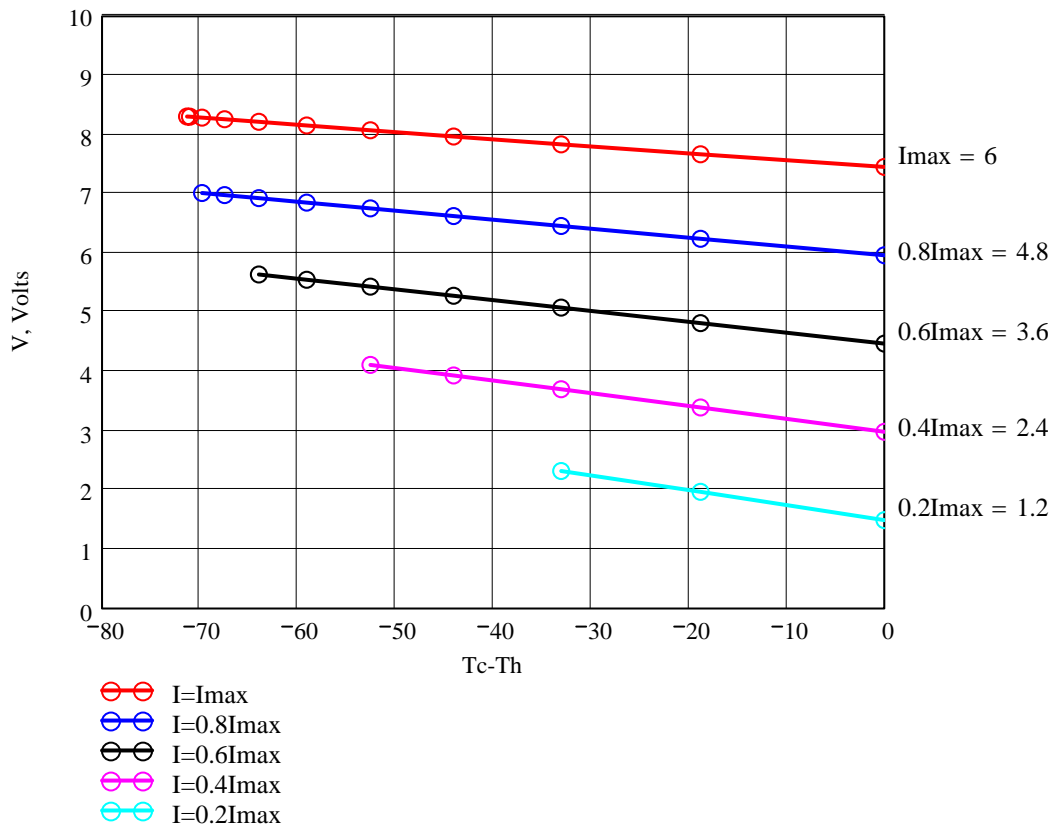
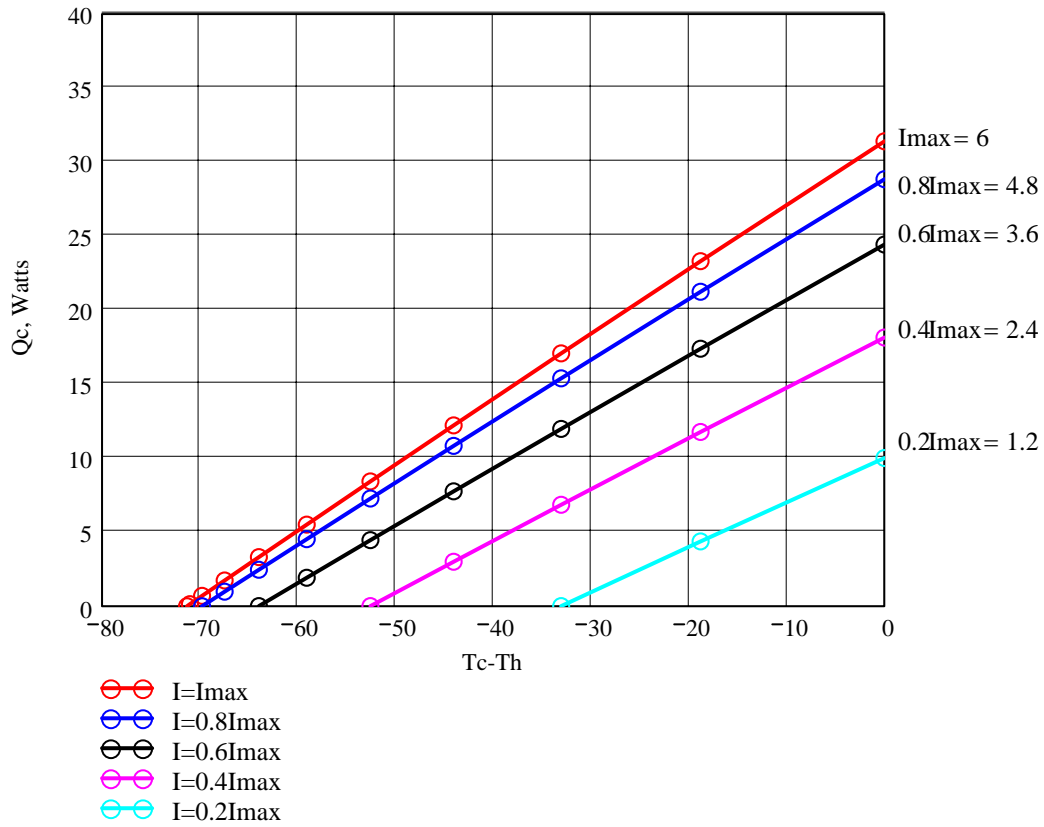
| Model Number    | Description                        |
|-----------------|------------------------------------|
| TM-71-1.4-6.0 M | High reliable version on Cold Side |

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

## Additional

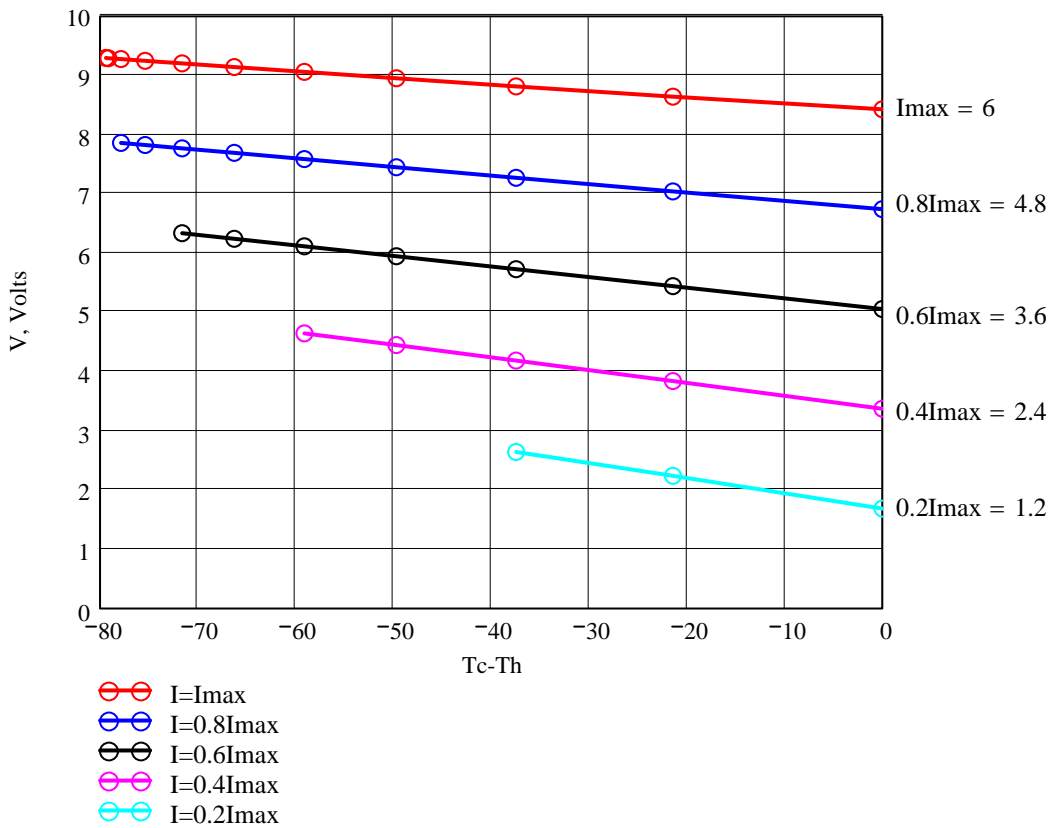
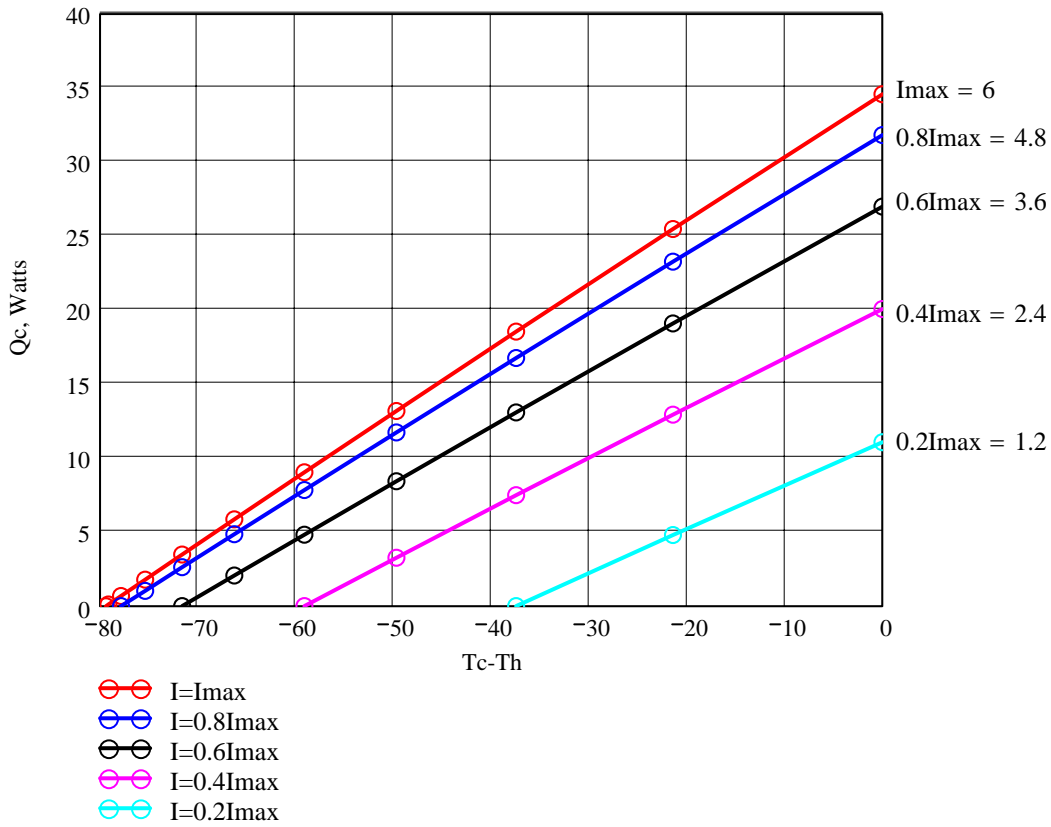
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics: Al<sub>2</sub>O<sub>3</sub>, white 96%
- Assembling Solder: SnSb, M.P. 232 °C ; SnCu M.P. 227 °C

Performance graphs for TM-71-1.4-6.0 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-71-1.4-6.0 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),  
 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).