

Thermoelectric module TM - 71-2.0-15.0



Performance Data

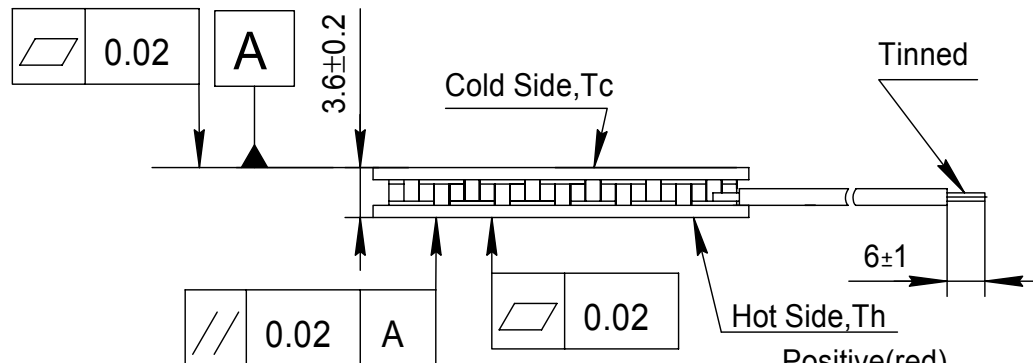
I _{max} (amps)	16	$\Delta T = \Delta T_{max}$. $T_h = 25 \pm 0.5 \text{ }^\circ\text{C}$.
V _{max} (volts)	8.2	$T_h = 25 \pm 0.5 \text{ }^\circ\text{C}$. $\Delta T = \Delta T_{max}$. $I = I_{max} \pm 0.1\text{A}$
ΔT_{max} ($^\circ\text{C}$)	71	$T_h = 25 \pm 0.5 \text{ }^\circ\text{C}$. $I = I_{max} \pm 0.1\text{A}$
Q _{max} (watts)	78	$T_h = T_c = 25 \pm 0.5 \text{ }^\circ\text{C}$. $I = I_{max} \pm 0.1\text{A}$
AC resistance (ohms)	0.46	$25 \pm 0.5 \text{ }^\circ\text{C}$.

Environment: dry air, N₂

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

Drawing № ND 044.00.00

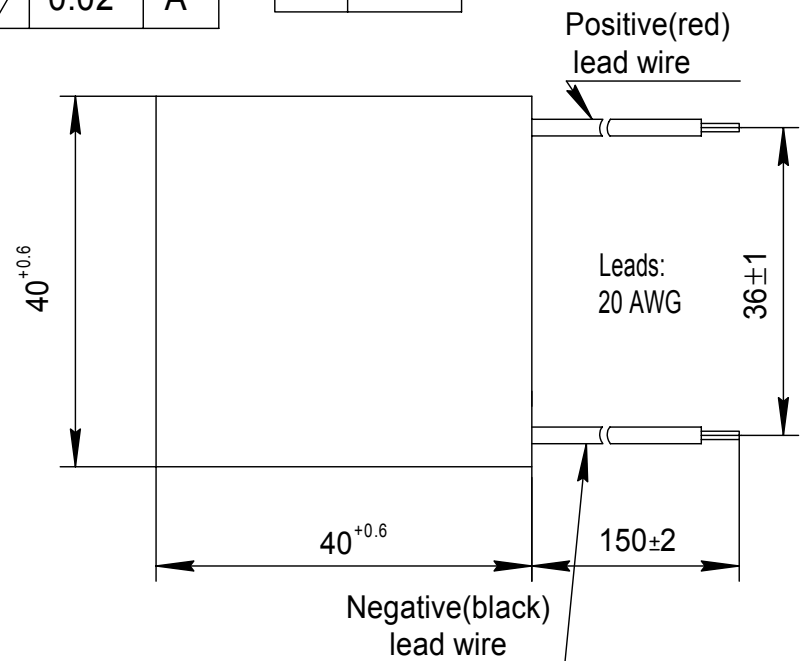
Dimensions in millimeters



Options

Model Number	Description
TM-71-2.0-15.0 M	High reliable version on Cold Side

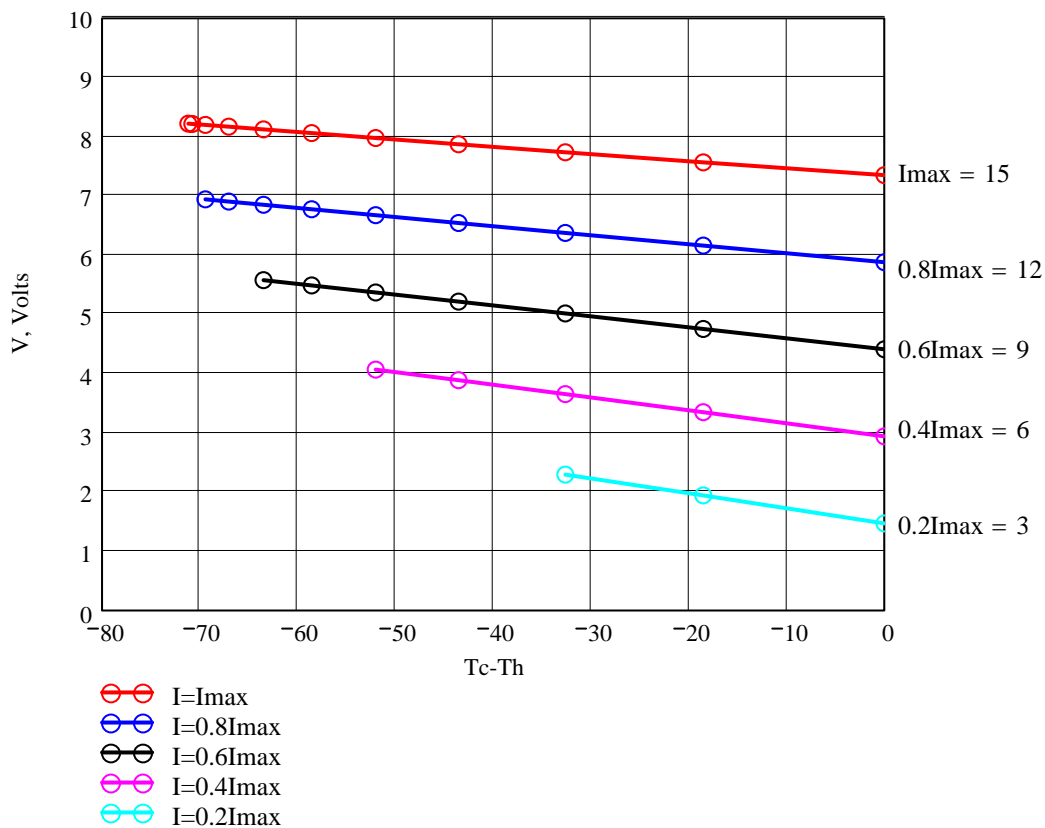
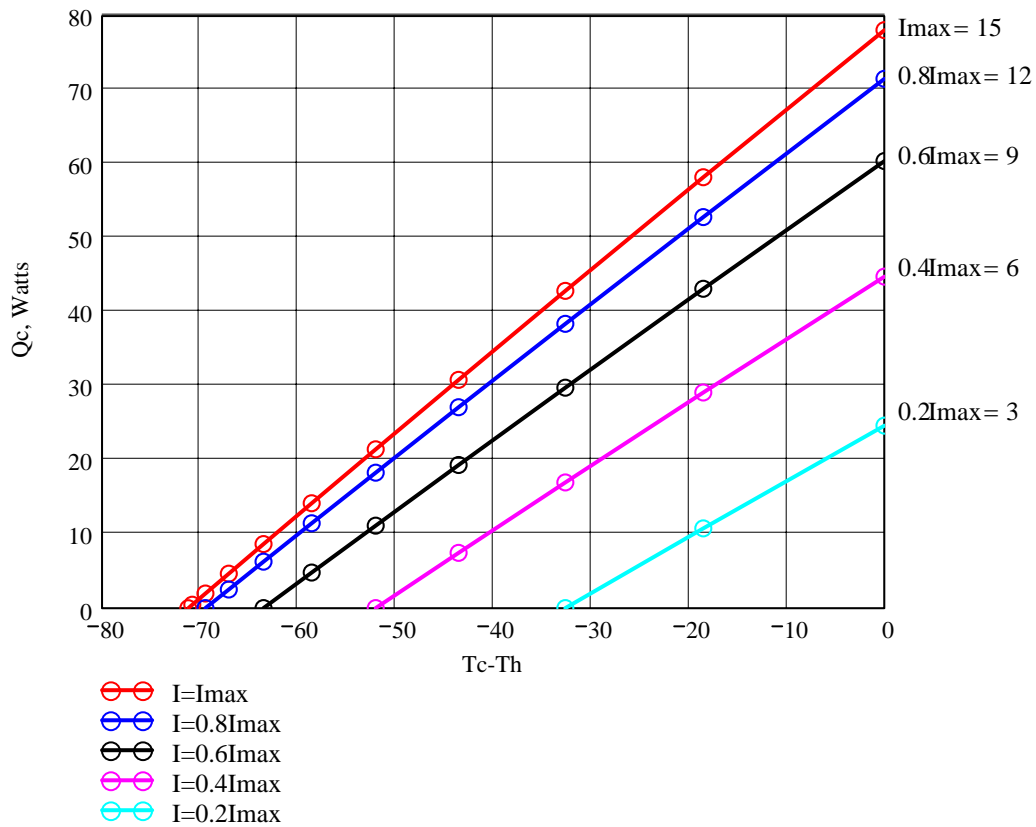
Lead wire insulation	Module maximum processing temperature
PVC	90 $^\circ\text{C}$
Silicone	200 $^\circ\text{C}$
PTFE	200 $^\circ\text{C}$



Additional

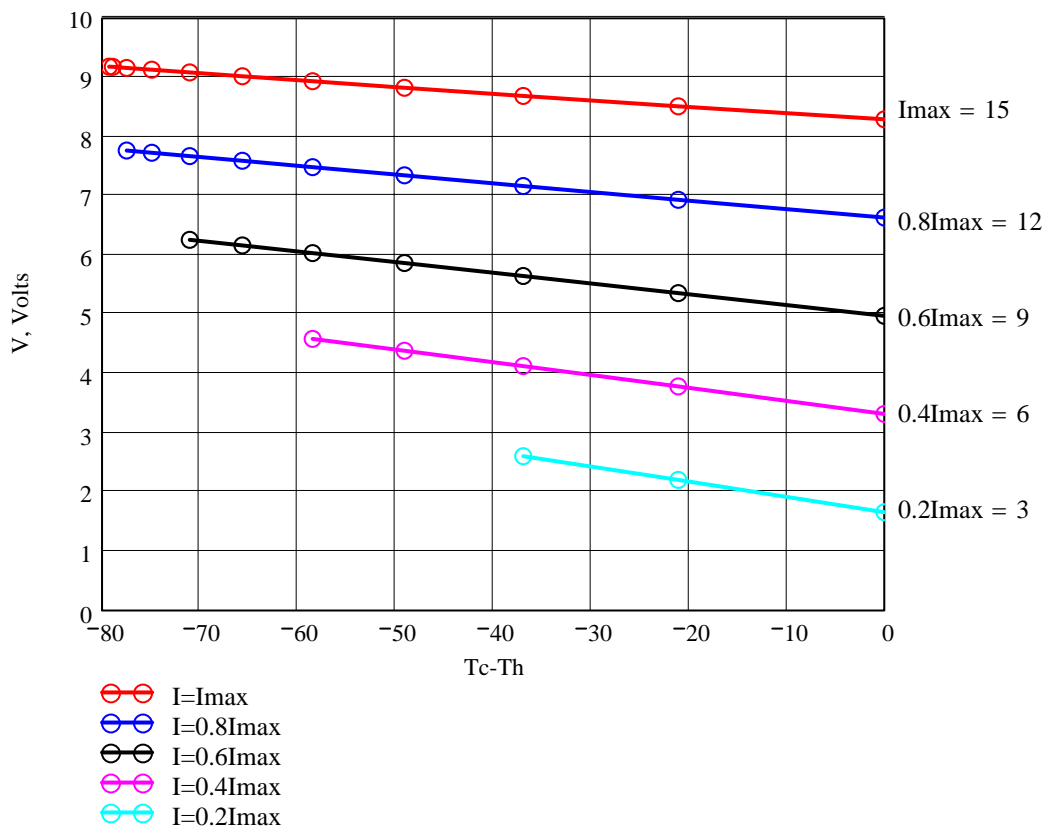
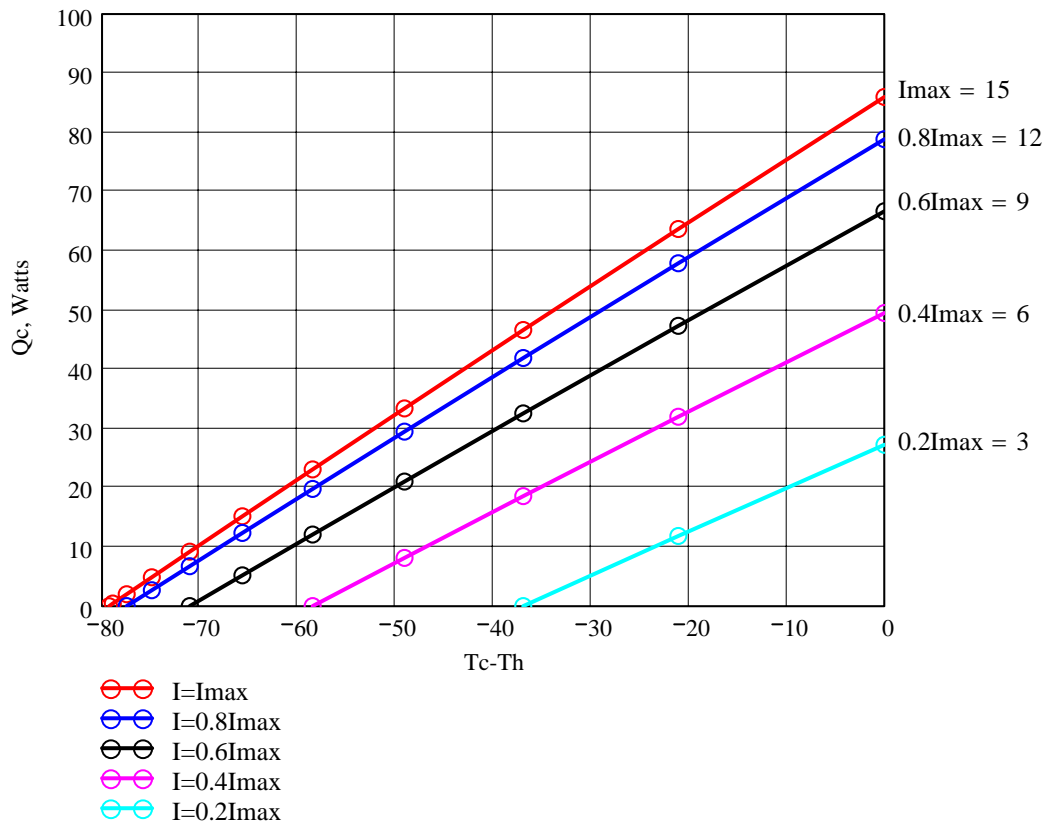
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics: Al₂O₃, white 96%
- Assembling Solder: SnSb, M.P. 232 $^\circ\text{C}$; SnCu M.P. 227 $^\circ\text{C}$

Performance graphs for TM-71-2.0-15.0 modules at $T_h=25\text{ }^\circ\text{C}$
 Environment: dry air, N_2



Q_c -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 ($^\circ\text{C}$),
 I - DC current through the modules (Amps)
 V -voltage applied to the module (Volts).

Performance graphs for TM-71-2.0-15.0 modules at $T_h=50\text{ }^\circ\text{C}$
 Environment: dry air, N_2



Q_c -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).