

# Thermoelectric module TM - 127-2.0-12.0



## Performance Data

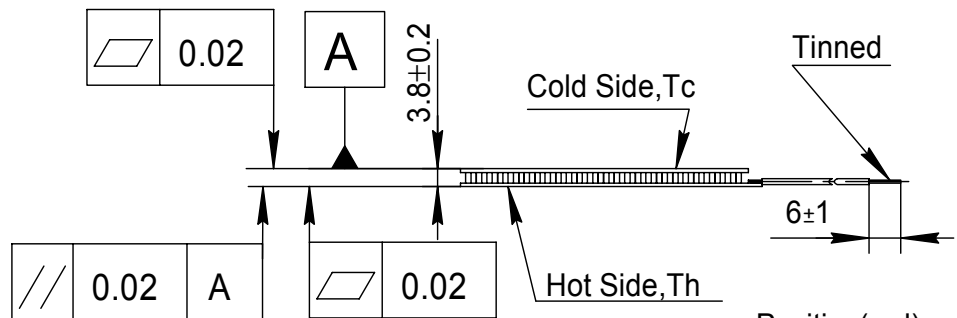
$I_{max}$ (amps)	13.2	$\Delta T = \Delta T_{max}$ . $T_h = 25 \pm 0.5$ °C.
$V_{max}$ (volts)	14.8	$T_h = 25 \pm 0.5$ °C. $\Delta T = \Delta T_{max}$ . $I = I_{max} \pm 0.1A$
$\Delta T_{max}$ (°C)	71	$T_h = 25 \pm 0.5$ °C. $I = I_{max} \pm 0.1A$
$Q_{max}$ (watts)	114	$T_h = T_c = 25 \pm 0.5$ °C. $I = I_{max} \pm 0.1A$
AC resistance (ohms)	1	$25 \pm 0.5$ °C.

Environment: dry air,  $N_2$

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

Drawing № ND 084.00.00

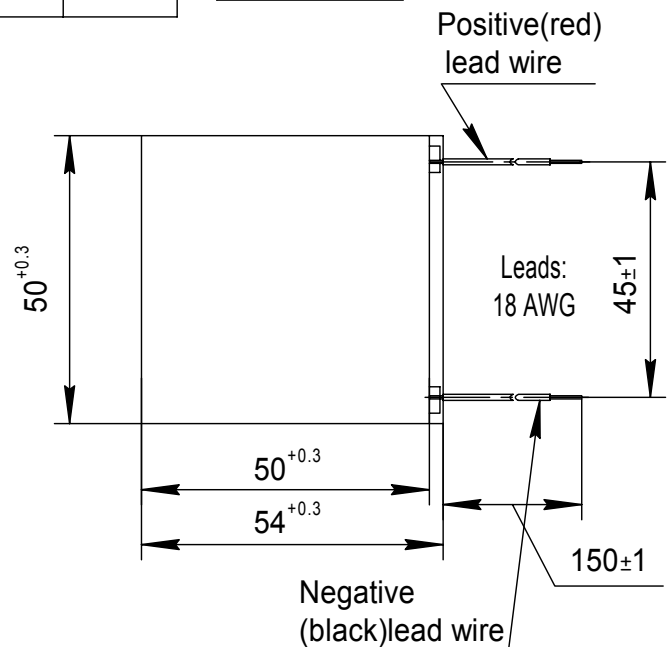
Dimensions in millimeters



## Options

Model Number	Description
TM-127-2.0-12.0 M	High reliable version on Cold Side

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



## Additional

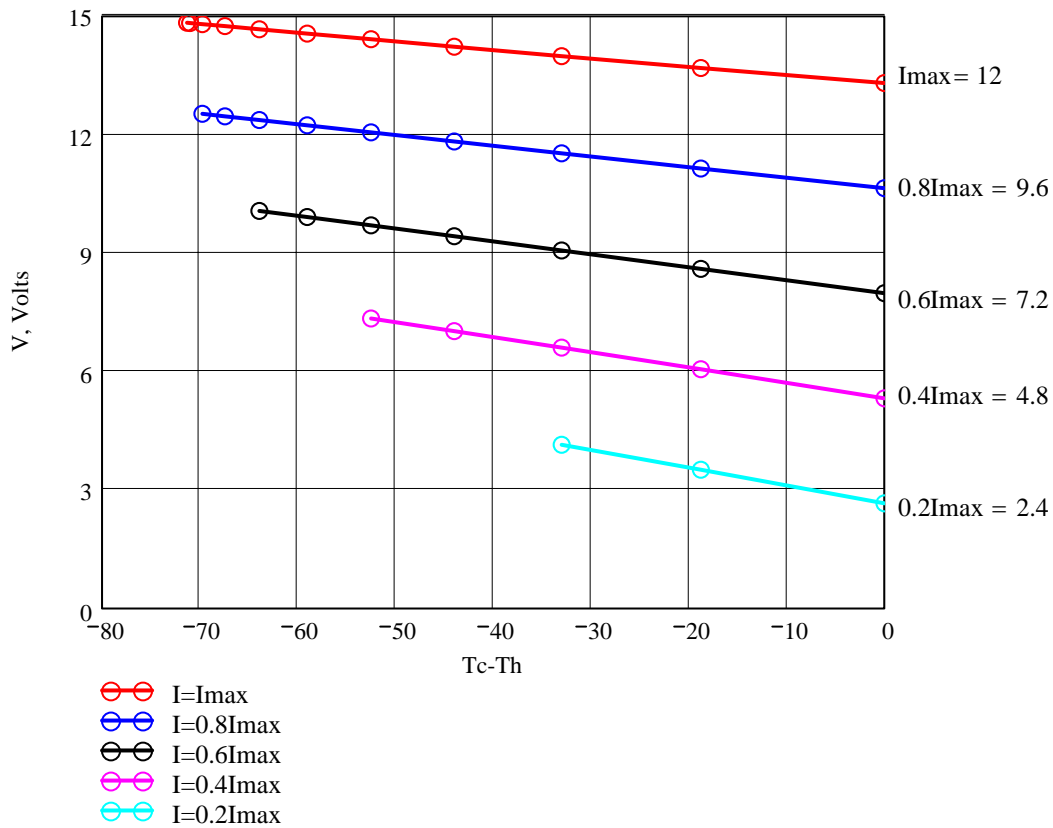
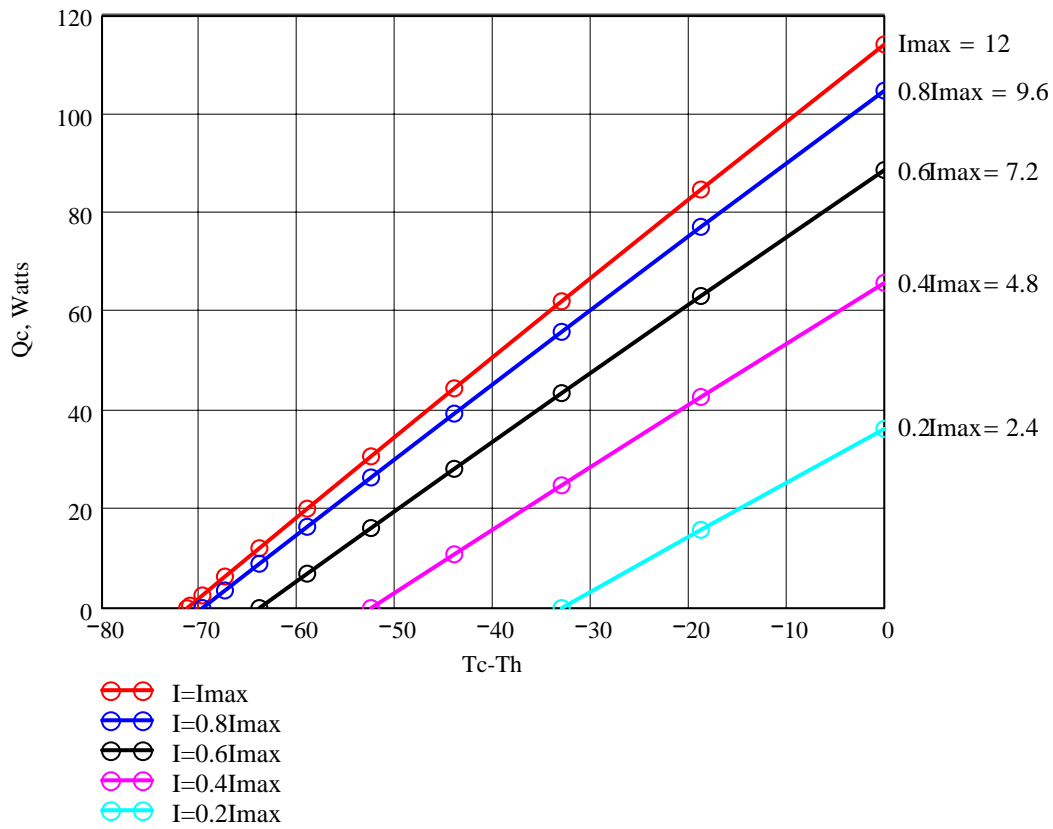
- RoHS 2002/95/EC compliant
- Cold Side and Hot Side Ceramics: Al<sub>2</sub>O<sub>3</sub>, white 96%
- Assembling Solder: SnSb, M.P. 232 °C ; SnCu M.P. 227 °C

SCTB NORD, 3, Peschany Carrier, 109383 Moscow, Russia;

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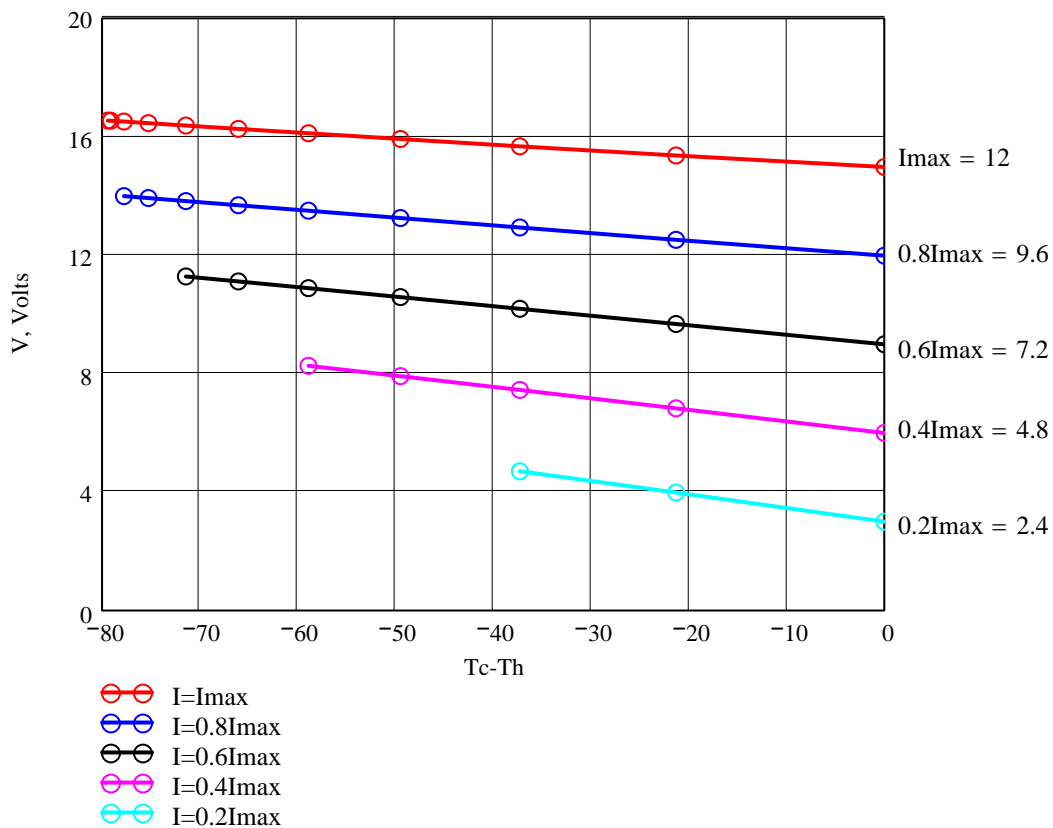
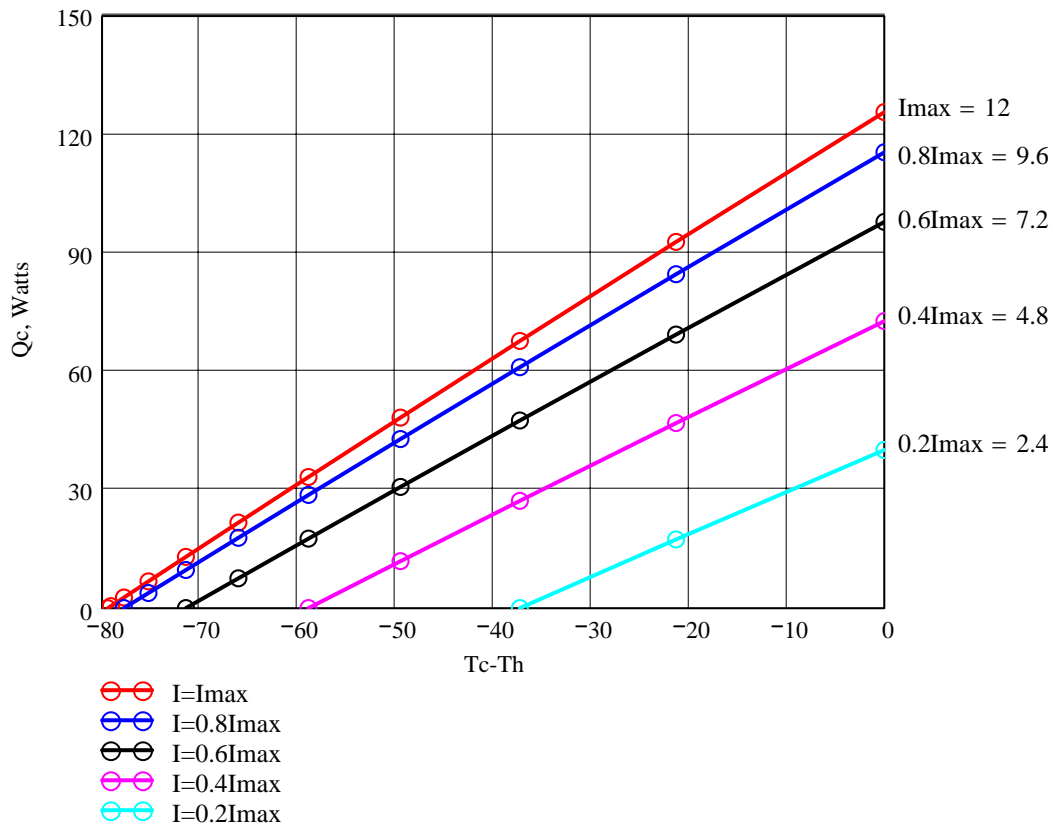
<http://www.sctbnord.com>; e-mail [info@sctbnord.com](mailto:info@sctbnord.com)

Performance graphs for TM-127-2.0-12.0 modules at  $T_h=25\text{ }^\circ\text{C}$   
 Environment: dry air,  $\text{N}_2$



$Q_c$  - 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-127-2.0-12.0 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).