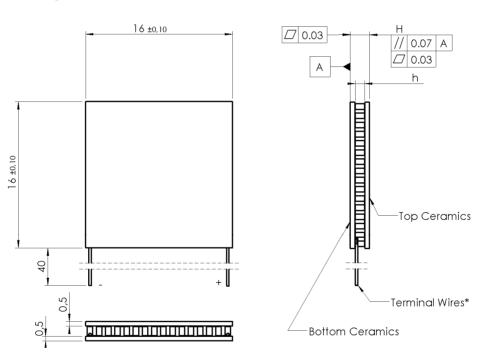
Performance parameters -

Туре	DTmax K	Qmax W	lmax A	Umax V	AC R Ohm	H mm	
1MX06-063- <i>xx</i> (N=126)							
1MX06-063-05	69	27,30	6,0		0,97	1,6	
1MX06-063-08	70	18,20	3,9		1,50	1,9	
1MX06-063-10	71	14,90	3,2	7,70	1,85	2,1	
1MX06-063-12	71	12,60	2,7		2,15	2,3	
1MX06-063-15	71	10,10	2,2		2,71	2,6	

Perfomance data are given for Thot=300K vacuum

Technical Drawing -



Ordering Options

A. TEC Internal Solder:

Lead-free SnSb Solder (Tmelt=230°C)

B. TEC Ceramics:

- 1. Pure Al₂O₃ (100%) 2. Alumina (Al₂O₃ 96%)
- 3. Aluminium Nitride (AIN)

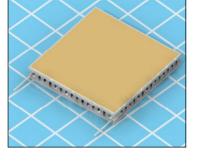
C. Surface Finish (one or both)

- 1. Blank Ceramics
- 2. Metallized:
 - 2.1 Ni-Sn plaiting
 - 2.2 Au plaiting
- 3. Metallized and Pre-tinned
 - Metallized and Pre-tinned 3.1 Solder 94 (PbSnBi, T_{melt} =94°C) 3.2 Solder 117 (InSn, T_{melt} =117°C) 3.3 Solder 138 (SnBi, T_{melt} =138°C) 3.4 Solder 183 (PbSn, T_{melt} =183°C) 3.5 Solder 199 (SnZn, T_{melt} =199°C)

D. Thermistor (optional)

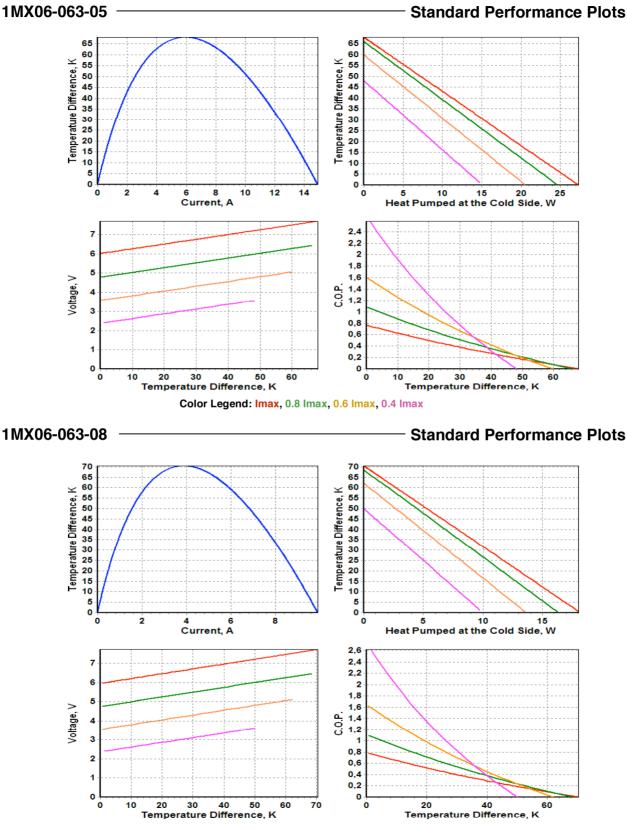
NTC thermistor type TB Resistance nominal 1. 2.2 kOhm@20C 2 10.0 kOhm@20C

Individual calibration is avaiable in -65..+85°C





- RMT Ltd.



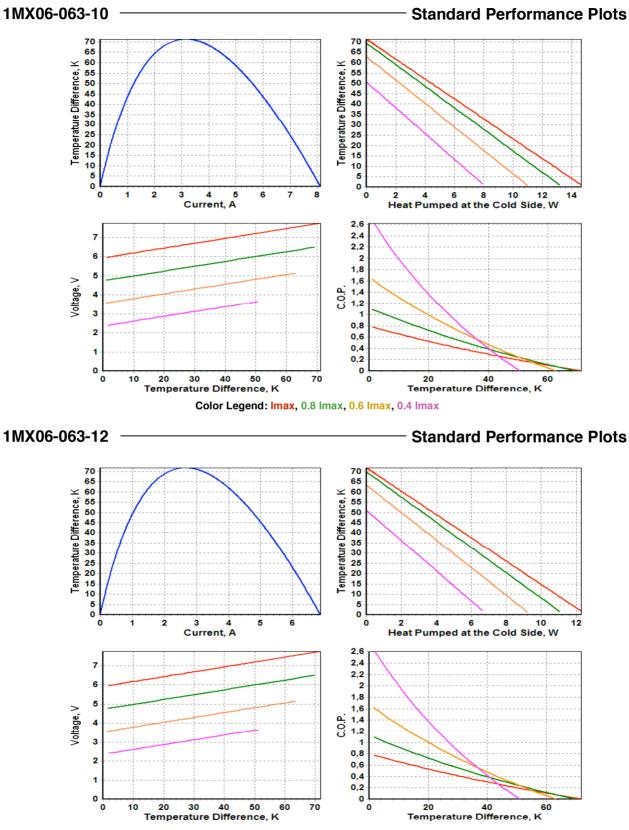


Perfomance plots are created with TECCAD Software. TECCAD is available for download from RMT Ltd. website - www.rmtltd.ru

Copyright 2007. RMT Ltd. The design and specifications of products can be changed by RMT Ltd. without notice.



- RMT Ltd.



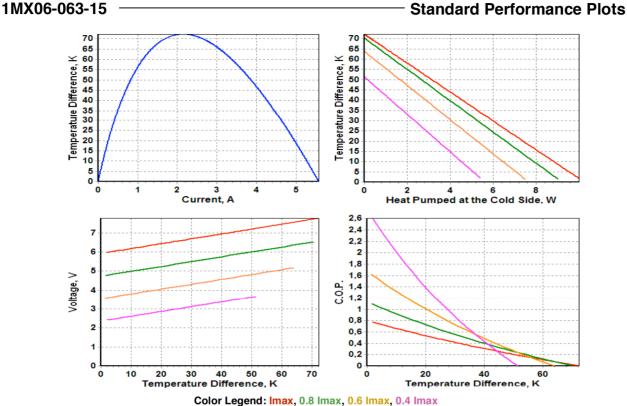


Perfomance plots are created with TECCAD Software. TECCAD is available for download from RMT Ltd. website - www.rmtltd.ru

Copyright 2007. RMT Ltd. The design and specifications of products can be changed by RMT Ltd. without notice.

Thermoelectric module Datasheet -

- RMT Ltd.



Applications Tips

Cautions

- Do not heat TE module more than 200°C (TEC assembled at 230°C) or 160°C (optional TECs assembled at 183°C).
- 2. Do not use TE module without attached heat sink at hot (bottom) side.
- 3. Connect TE sub-mount to a DC power supply in acccordance to polarity.
- 4. Do not apply DC current higher than Imax.

Installation

1. Mechanical Mounting

TEC is placed between two heat exchangers . This construction is fixed by screws or in another mechanical way. It is suitable for large modules (with dimensions 30mmx30mm and larger).

2. Soldering

This method is suitable for a TE module with metallized outside surfaces (cold and hot sides). RMT provides this option and also makes pre-tinning for TE modules.

3. Glueing

A glue is usually based on some epoxy compound filled with some thermoconductive material such as graphite or diamond powders, silver, SiN and others. The application of a specific type depends on application features and the type of a TE module.

Definitions

Value	Description	Notes		
DTmax	Maximum temperature difference at I=Imax	rated at Qmax=0, at other Q it should be estimated as pT=pTmax(1-Q/Qmax)		
Qmax	Maximum heat pumping capacity at I=Imax	rated at DT=0, at other DT it should be estimated as Q=Qmax(1-DT/DTmax)		
Imax	Maximum current	-Electric parameters resulting in greatest pTmax		
Umax	Maximum voltage drop	-Electric parameters resulting in greatest DTMax		
Rt	Header thermal resistance			
-XX	Thermoelectric pellet length code	Pellet length is "-xx" x 10 (in mm)		
Thot	TEC hot side temperature	Performance data shown in specifications are given for Thot=300 K, vacuum		
Н	Total TEC height	All dimensions are given in mm		

Copyright 2007. RMT Ltd. The design and specifications of products can be changed by RMT Ltd. without notice.