NORD
Ferrotec Nord Corp.

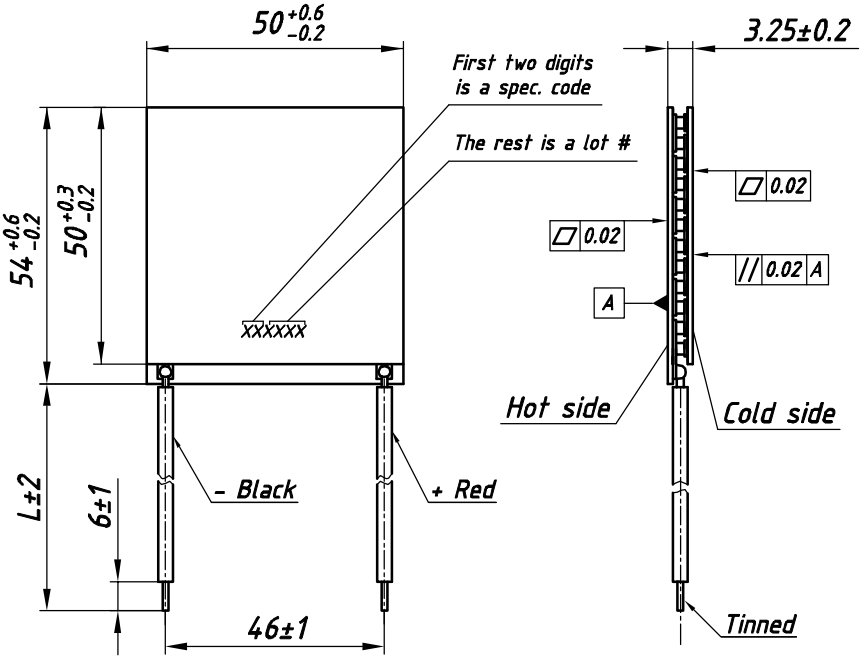
Thermoelectric module
TM-241-1.6-28.0

FerroTec

TECHNICAL DATA

U_{max}		27.9 V	T_{hot}=25°C Vacuum
Q_{max}		471 W	
ΔT_{max}		72°	
I_{max}		29.0 A	
ACR at 25°C		0.86 Ohm	
Pad type	Hot side	Ceramics Al_2O_3, white 96%	
	Cold side		
Max. processing temperature		Depends on chosen solder type	
Standard tolerances for thermal and electrical parameters ±10%			

MODULE DRAWING
standard design



STANDARD ORDERING OPTIONS

№	Option	Parameter	
1	Lead wires	AWG №	
		18	
2	Lead wires length	L - under customer request	
3	Lead wires insulation	Type / Max. processing temp.	
		Without insulation / See solder type m.p.t	
		PVC-1 / 85° C	
		PVC-2 / 105° C	
		Silicone / 180° C	
		PTFE / 200° C	
4	Internal solder	Type / Max. processing temp.	
		Type-1 / 138° C	
		Type-2 / 183° C *	
		Type-3 / 227° C	
		Type-4 / 232° C	
5	Anticorrosional coating	yes	no
6	Sealing	Type / Max. processing temp.	
		Without sealing / 200° C	
		Epoxy / 130° C	
		Silicone / 180° C	

AVAILABLE MODIFICATIONS

Design	Description
TM-70-1.6-8.5 MM	Porch-style design with high reliable version on both sides
TMC-70-1.6-8.5 M	Porch-style design with high reliable version on cold side for thermal cycling applications

OPTIONS UPON REQUEST

Height tolerance	± 0.02
Unflatness and nonparallelism	± 0.02

- Solder type marked * is not compliant to RoHS (2002/95/EC)
- For another options consult of our tecnical support engineers

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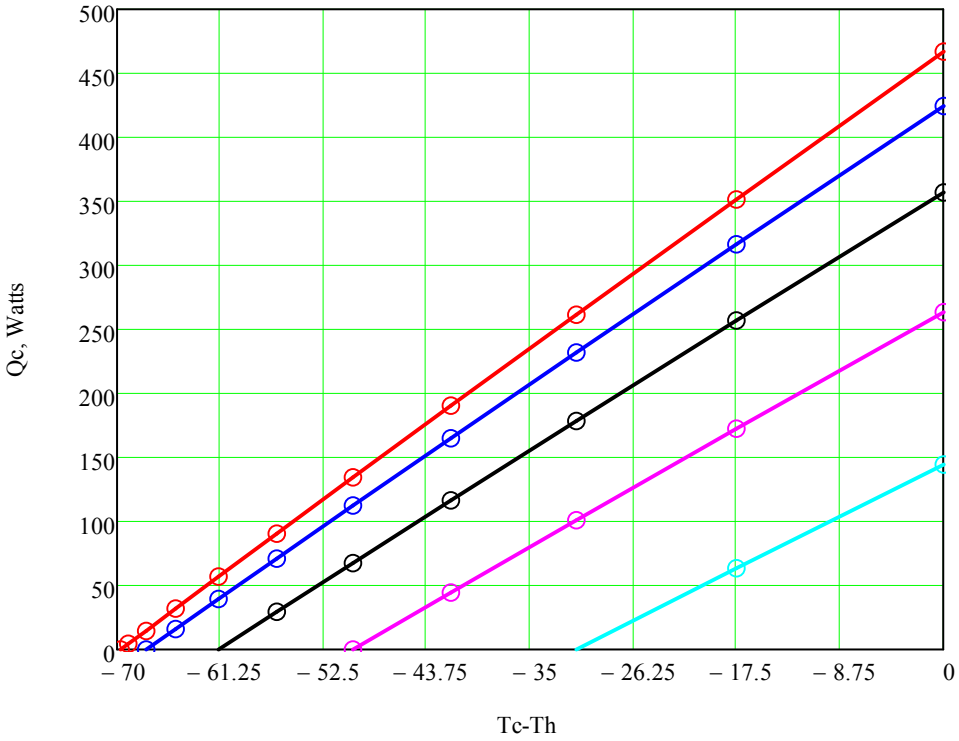
Performance graphs for TM-241-1.6-28.0 module at Th=25 ºC
Environment: vacuum



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I=0.6Imax
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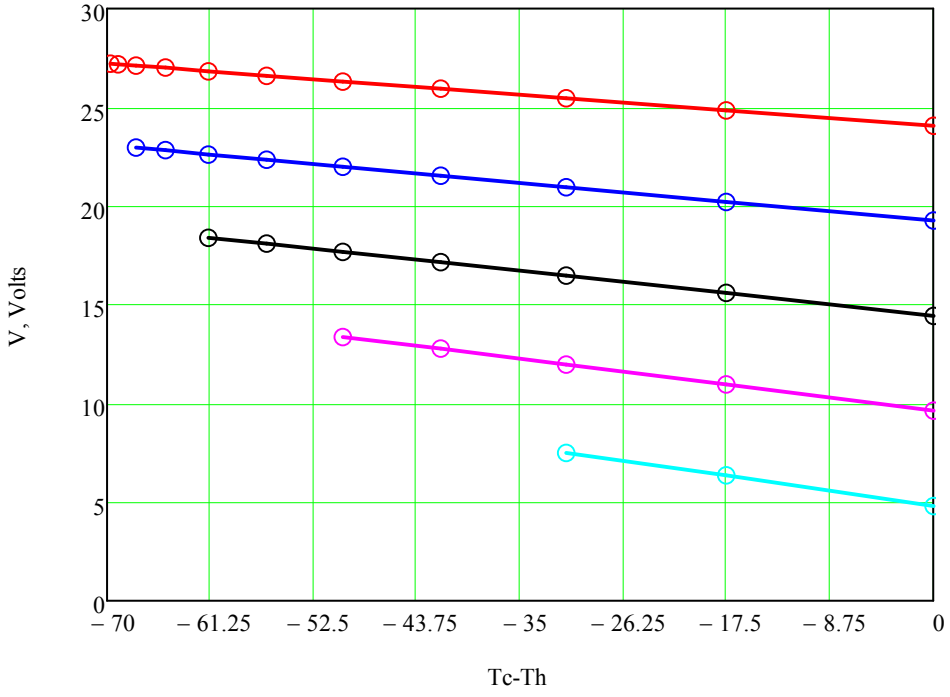
I=0.2Imax



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