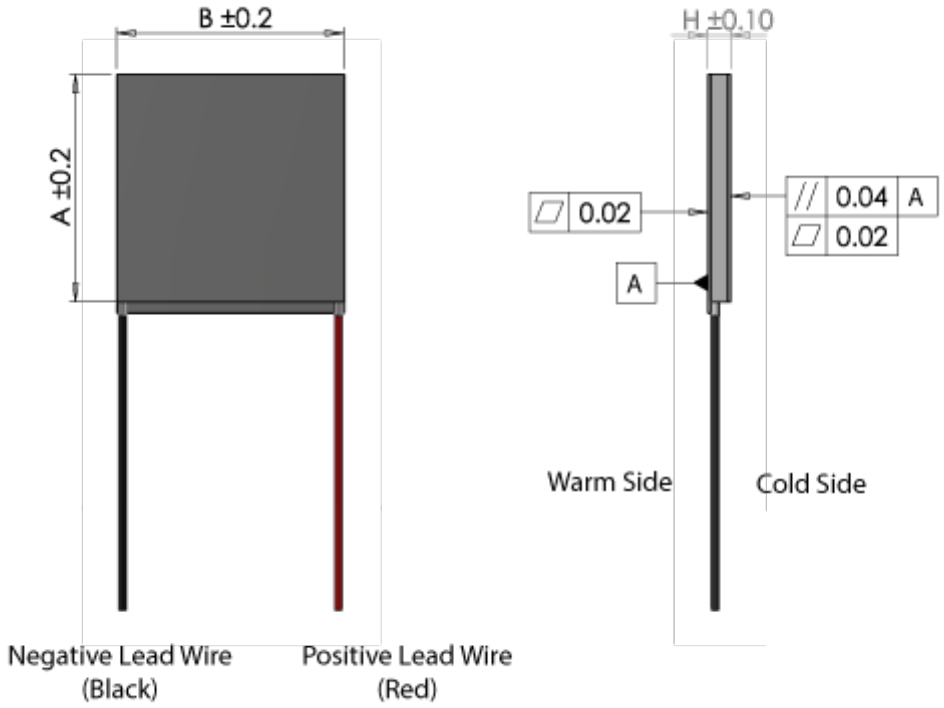
MGM250-17-10-16

Mini Thermoelectric Generator Module



Parameters correct at temp.	Hot side: 250°C Cold side: 30°C	Hot side: 100°C Cold side: 30°C
Matched load output power	0.42W	0.05W
Matched load resistance	1.0Ω ± 15%	0.8Ω ± 15%
Open circuit voltage	1.4V	0.4V
Matched load output	0.6A	0.3A
Matched load output voltage	0.7V	0.2V
Heat flow through module	8W	2.5W
Maximum compress (non-destructive)		1MPa
Maximum operation temperature	Hot side - 250°C. Cold side - 175°C	

Geometric Dimensions

A	11.2mm
B	11.2mm
H	approx. 3.2mm

Features

- Compact structure (no moving parts)
- Reliable performance
- Maintenance-free
- Noise-free operation
- Low-carbon, green technology
- Epoxy sealed - suitable for use in high humidity conditions
- High temperature

Adaptive is a registered trademark of European Thermodynamics Limited.
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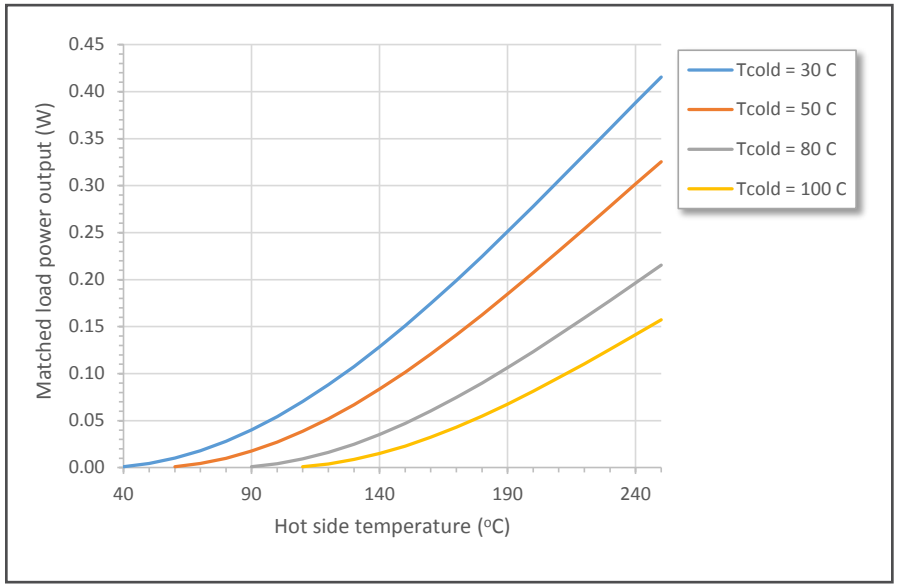
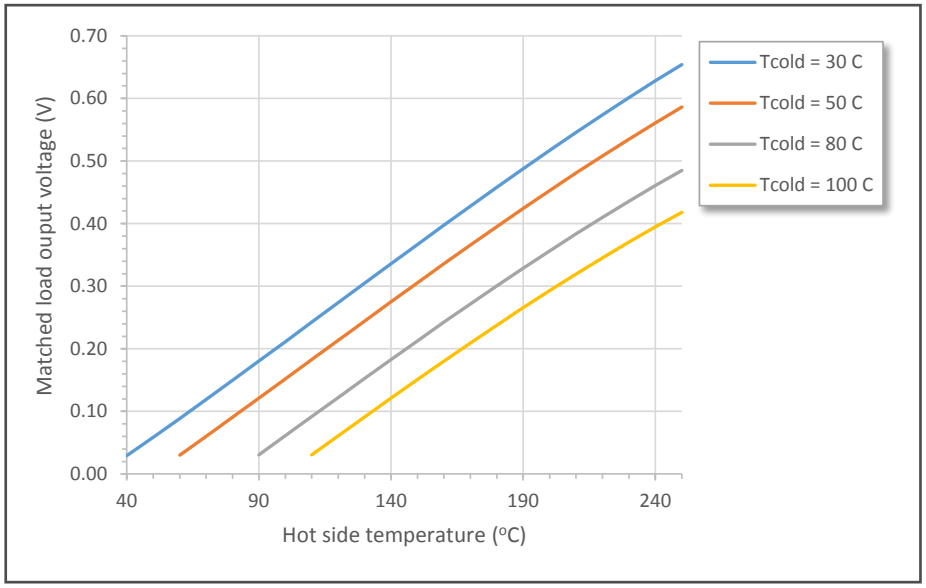
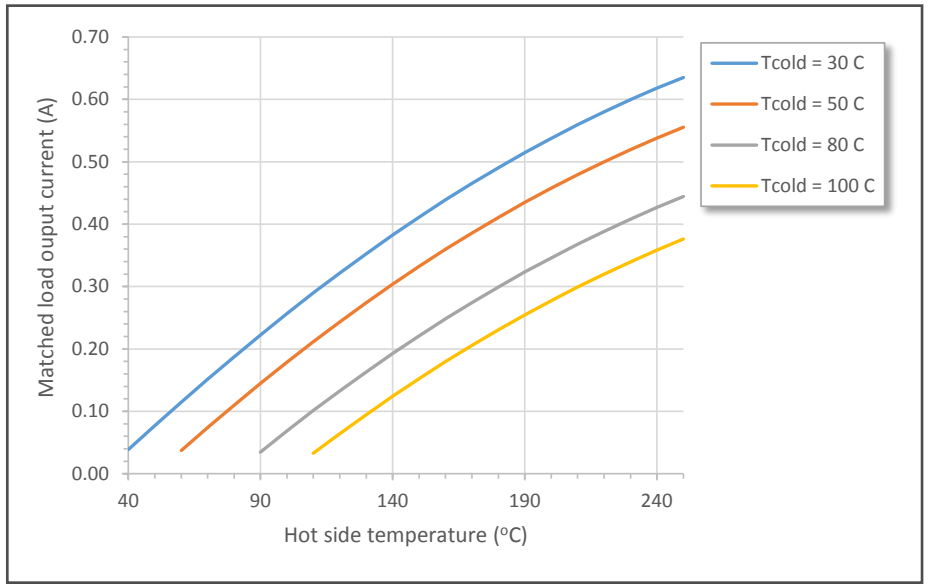
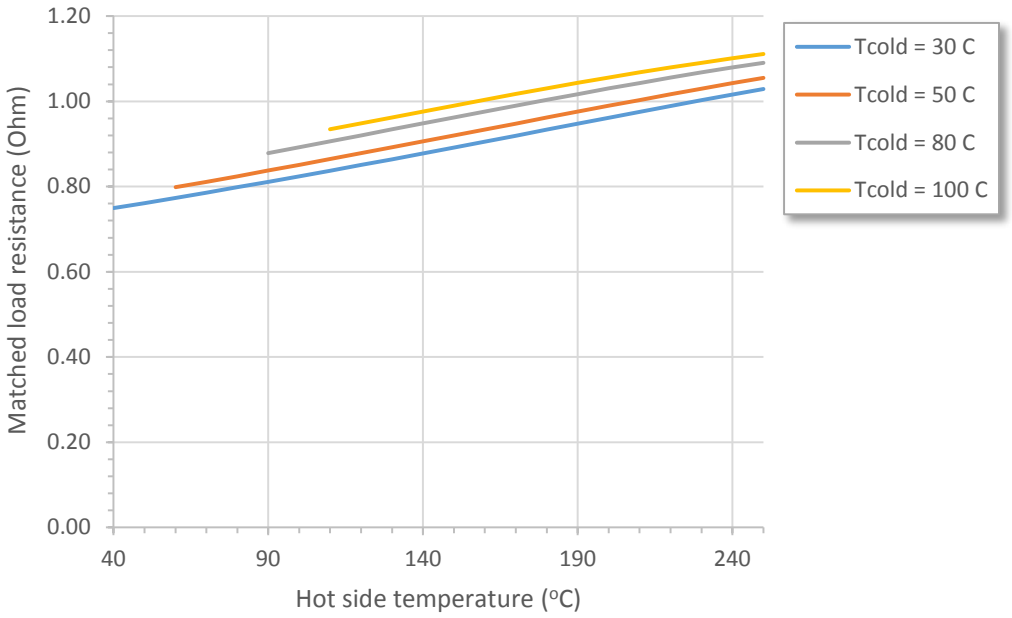
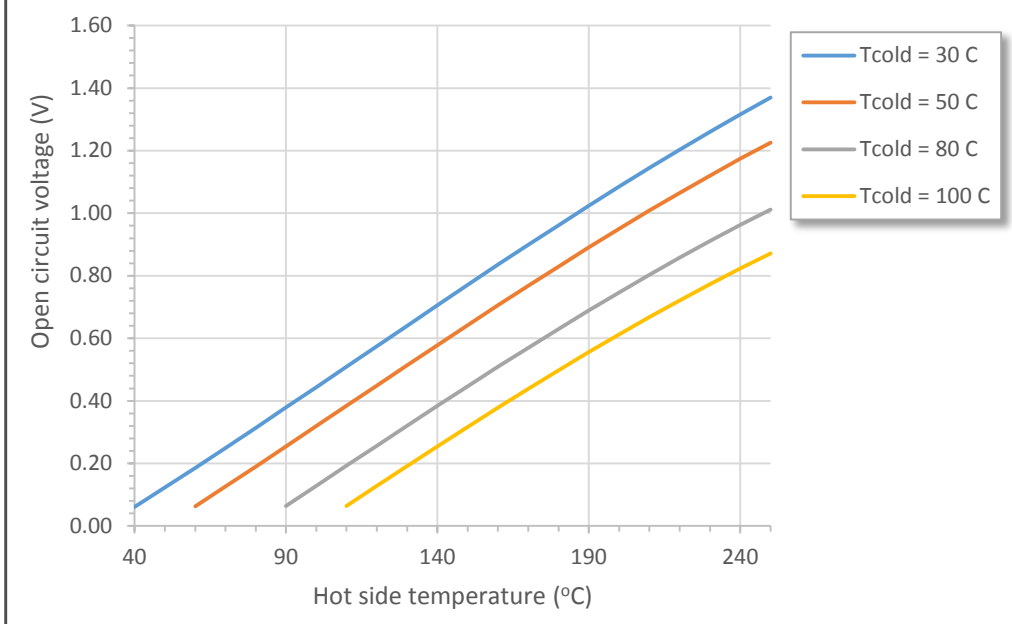

Matched load power output (W)
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C


Matched load ouput voltage (V)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C


Matched load ouput current (A)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C


Matched load resistance (Ohm)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C


Open circuit voltage (V)
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C