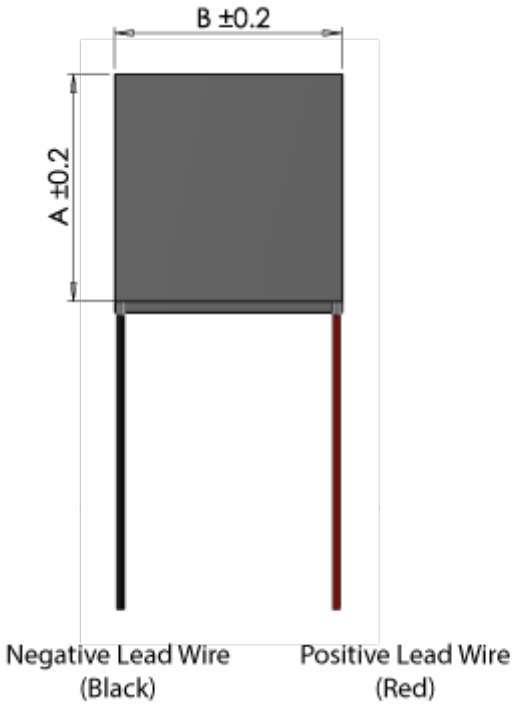
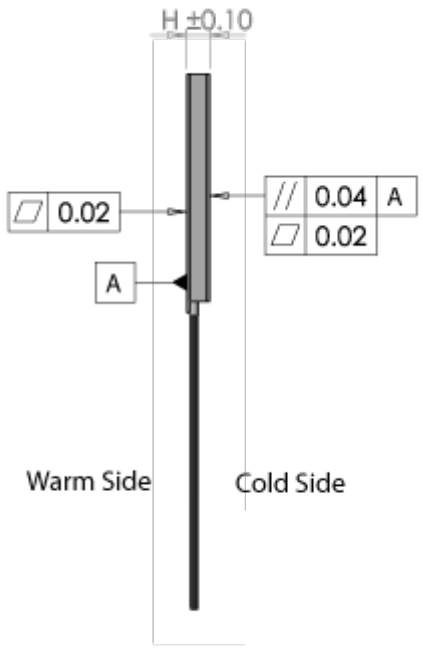
MGM250-49-10-16

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	1.20W	0.16W
Matched load resistance	3.0Ω ± 15%	2.4Ω ± 15%
Open circuit voltage	3.9V	1.3V
Matched load output	0.6A	0.3A
Matched load output voltage	1.9V	0.6V
Heat flow through module	23W	7.2W
Maximum compress (non-destructive)		1MPa
Maximum operation temperature	Hot side - 250°C. Cold side - 175°C	

Geometric Dimensions

A	19mm
B	19mm
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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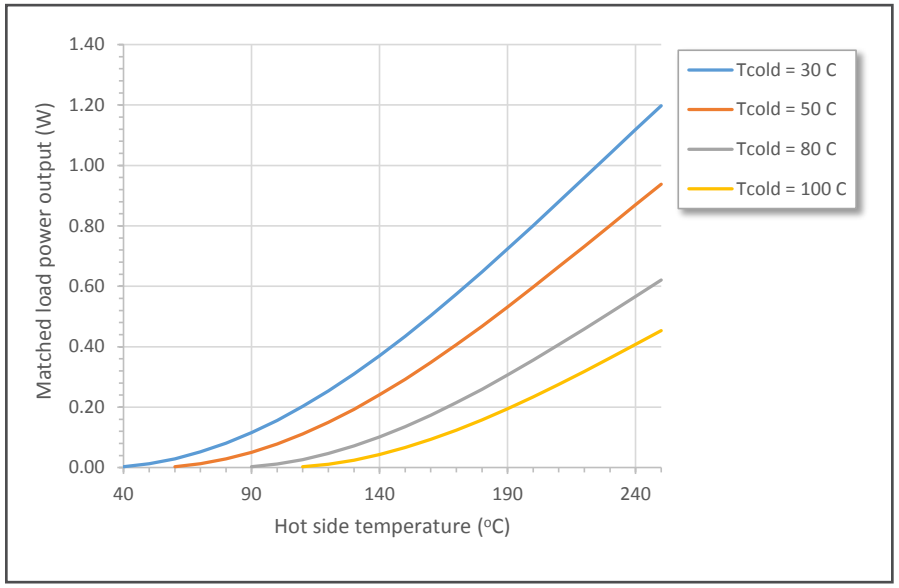
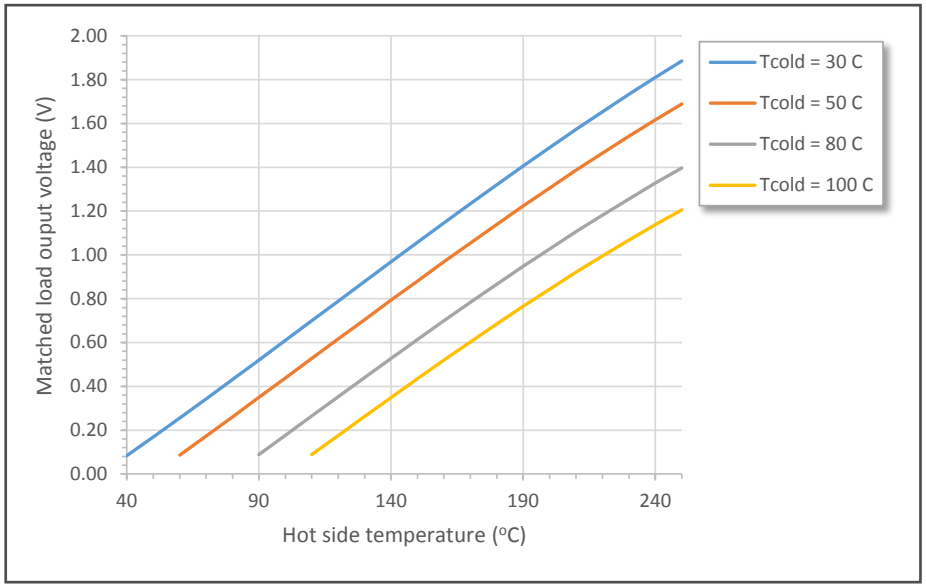
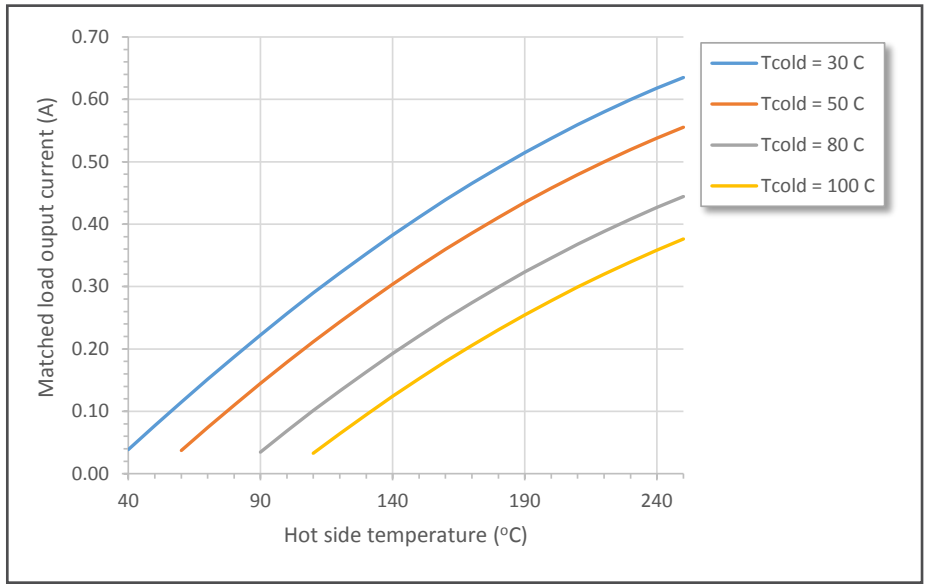
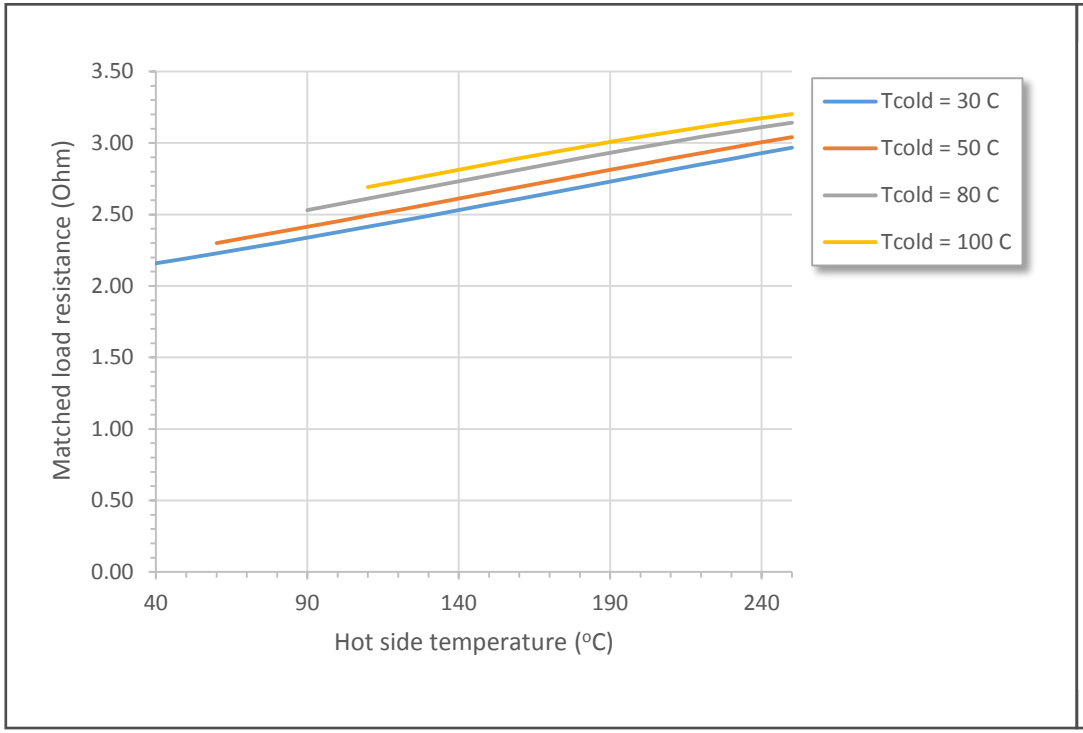
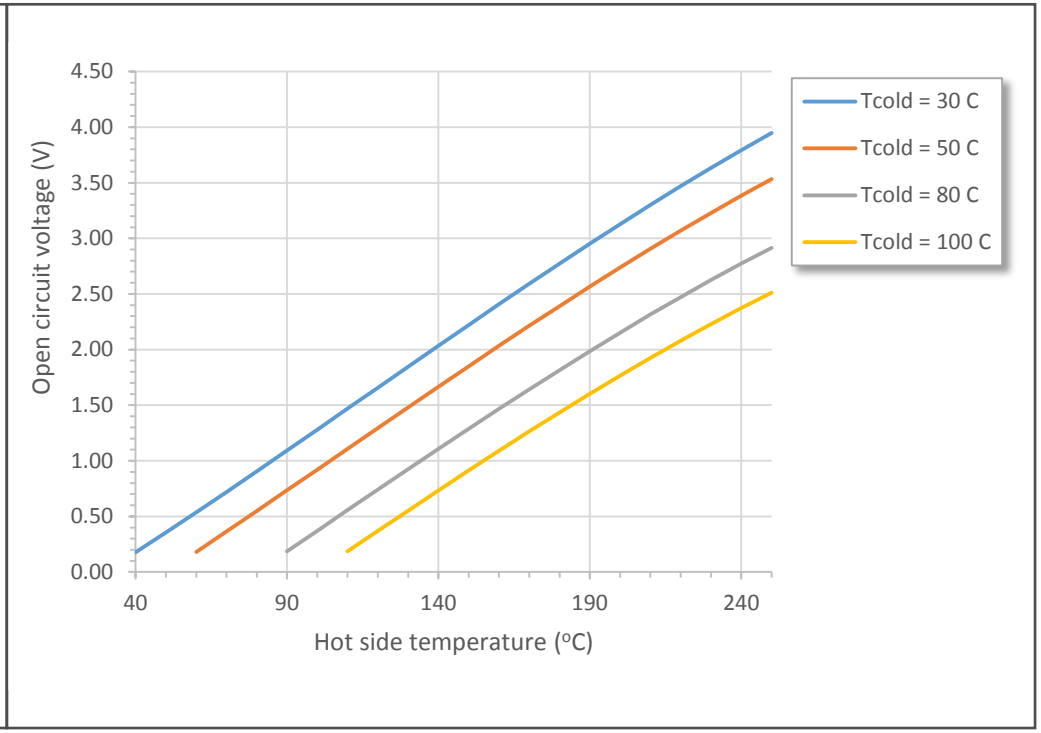

Matched load power output (W)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C


Matched load ouput voltage (V)
2.00
1.80
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


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)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
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)
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
40
90
140
190
240
Hot side temperature (°C)
Tcold = 30 C
Tcold = 50 C
Tcold = 80 C
Tcold = 100 C