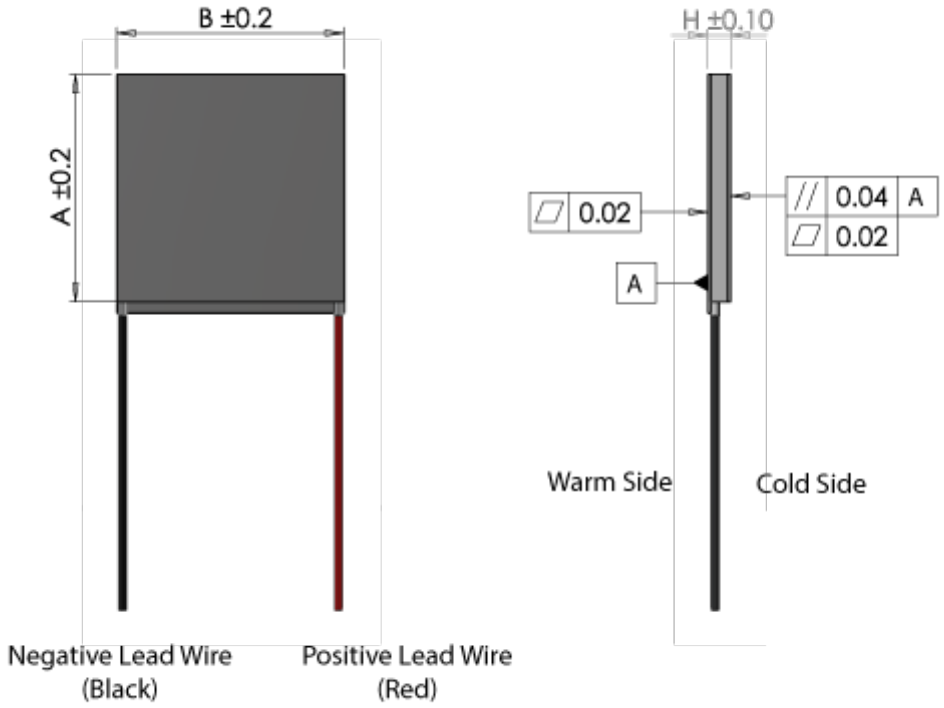
# MGM250-31-10-16

## Mini Thermoelectric Generator Module




| Parameters correct at temp. | Hot side: 250°C<br>Cold side: 30°C | Hot side: 100°C<br>Cold side: 30°C |
|---|---|---|
| Matched load output power | 0.76W | 0.10W |
| Matched load resistance | 1.9Ω ± 15% | 1.5Ω ± 15% |
| Open circuit voltage | 2.5V | 0.8V |
| Matched load output | 0.6A | 0.3A |
| Matched load output voltage | 1.2V | 0.4V |
| Heat flow through module | 15W | 4.5W |
| Maximum compress (non-destructive) | | 1MPa |
| Maximum operation temperature | Hot side - 250°C.<br>Cold side - 175°C | |

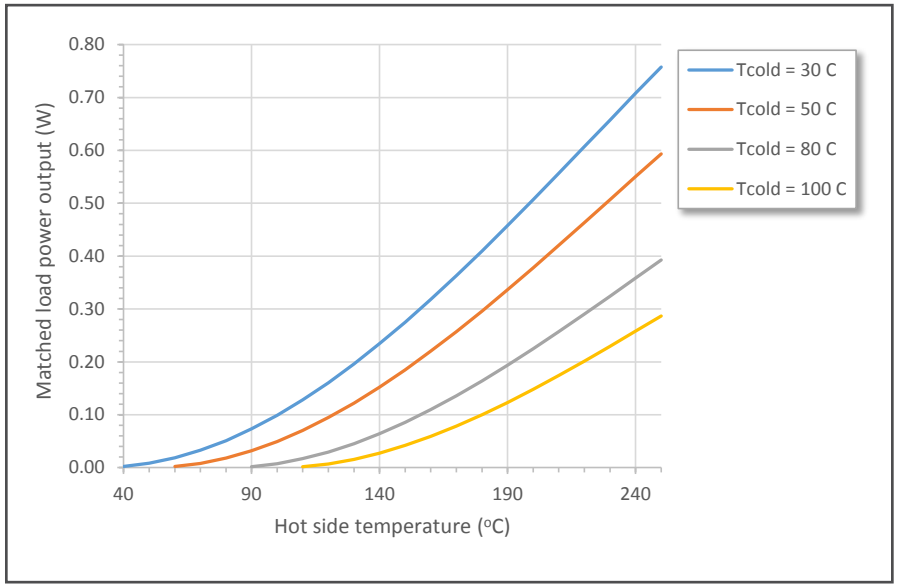
### Geometric Dimensions

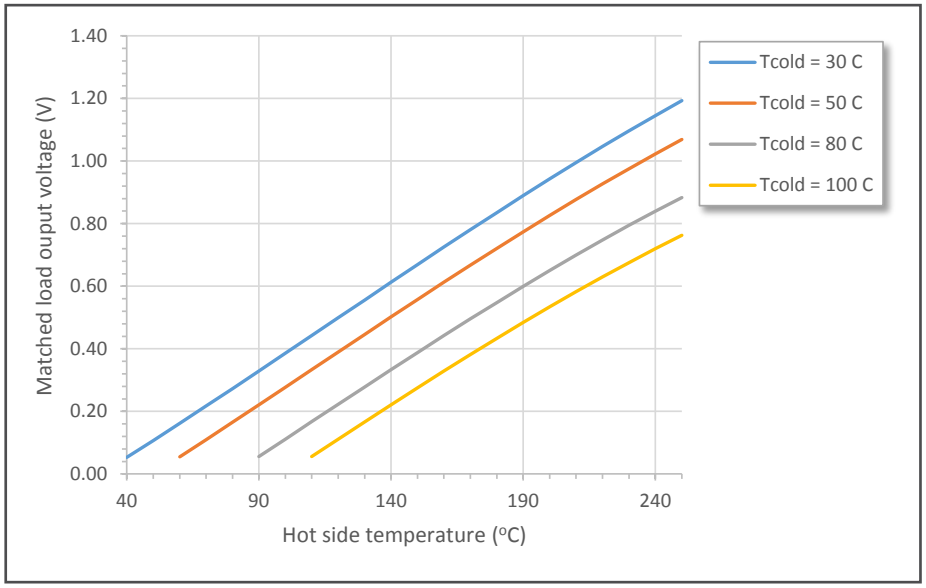
| | |
|---|---|
| A | 15mm |
| B | 15mm |
| H | approx. 3.2mm |

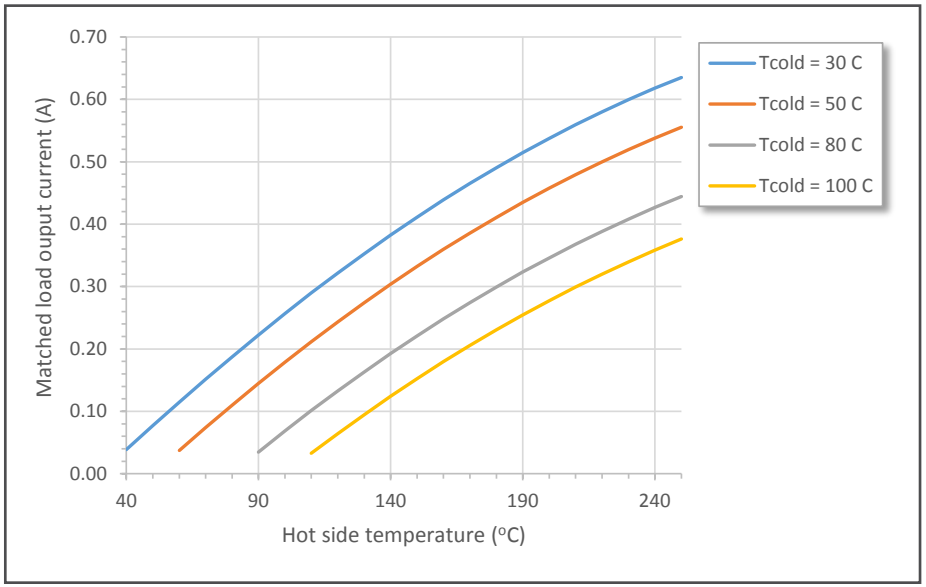
### Features

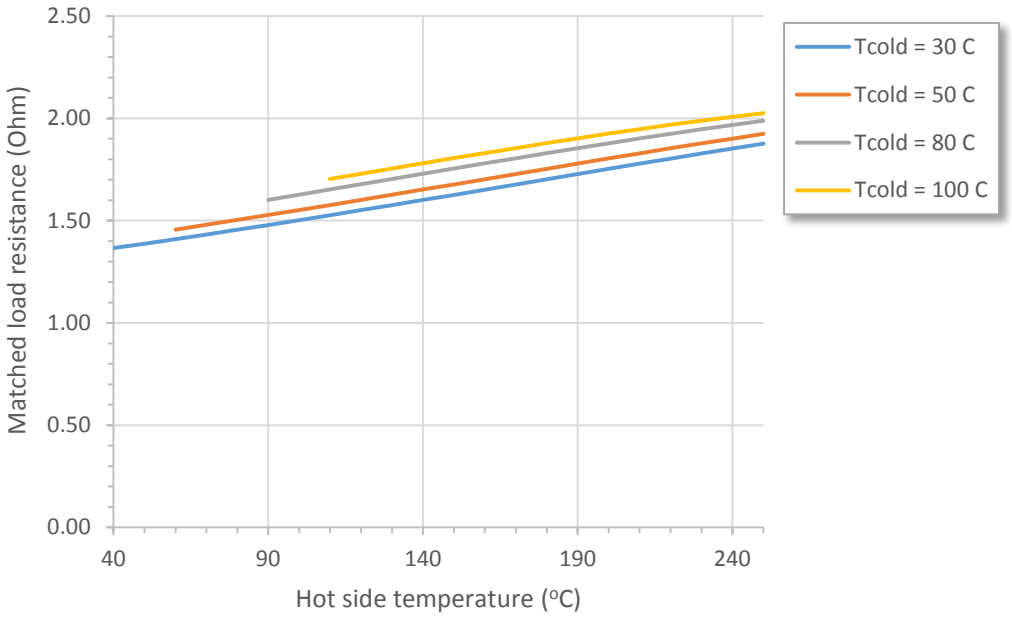
- Compact structure (no moving parts)
- Reliable performance
- Maintenance-free
- Noise-free operation
- Low-carbon, green technology
- Epoxy sealed - suitable for use in high humidity conditions
- High temperature

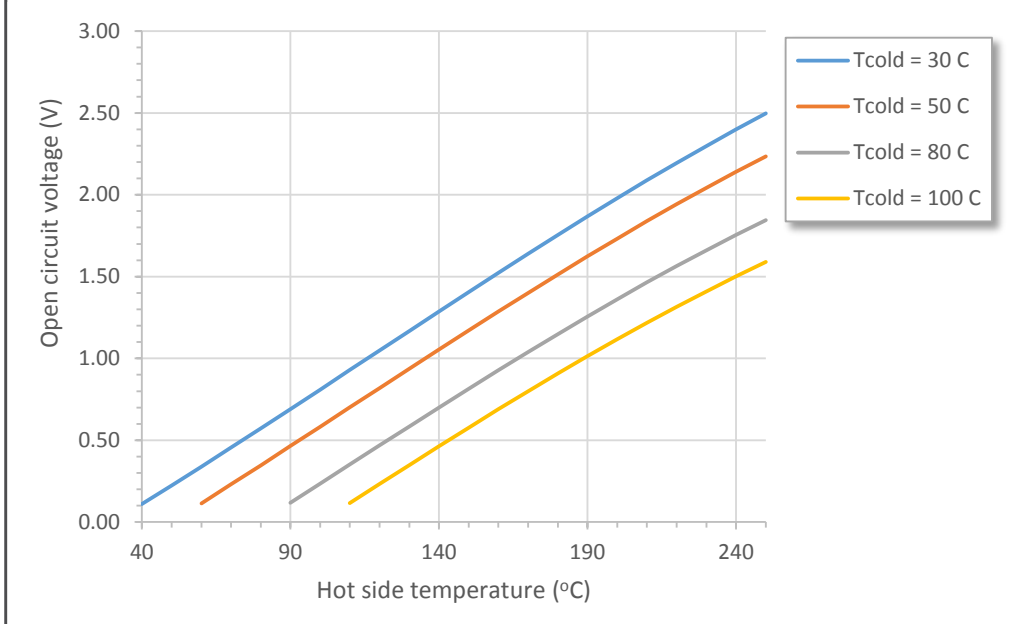
Adaptive is a registered trademark of European Thermodynamics Limited.
Web: www.etdyn.com Tel: +44(0)116 279 6899 E-mail: info@etdyn.com


Matched load power output (W)
0.80
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 voltage (V)
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)
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)
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