**EN:** This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

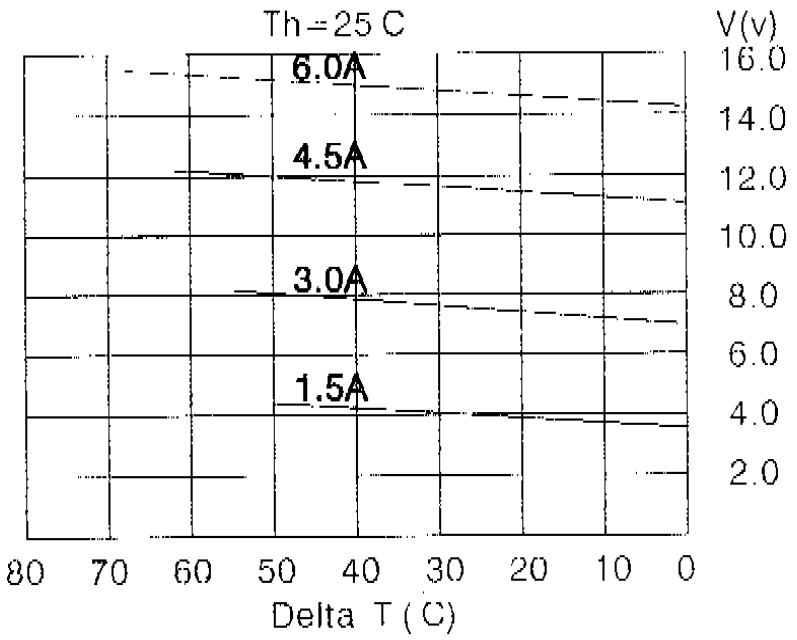
# Thermoelectric Cooler

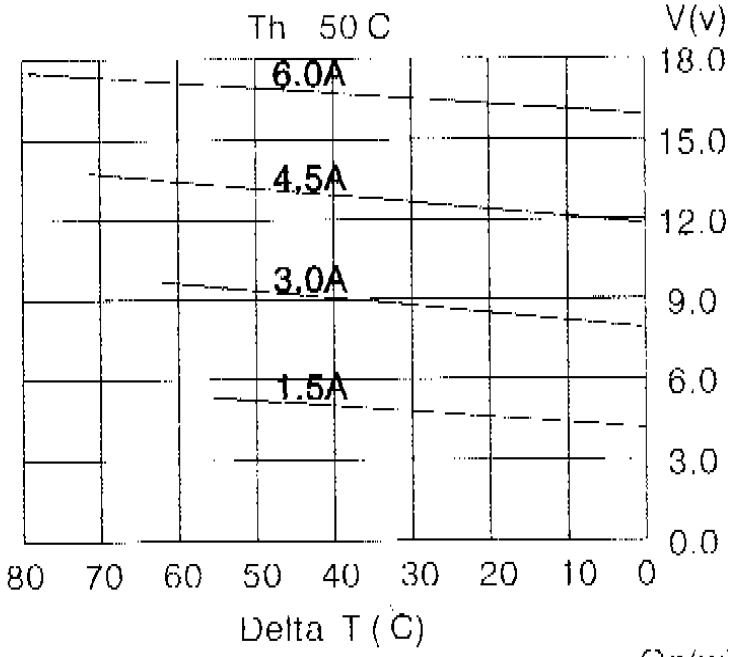
## STONECOLD PM-40X40-53

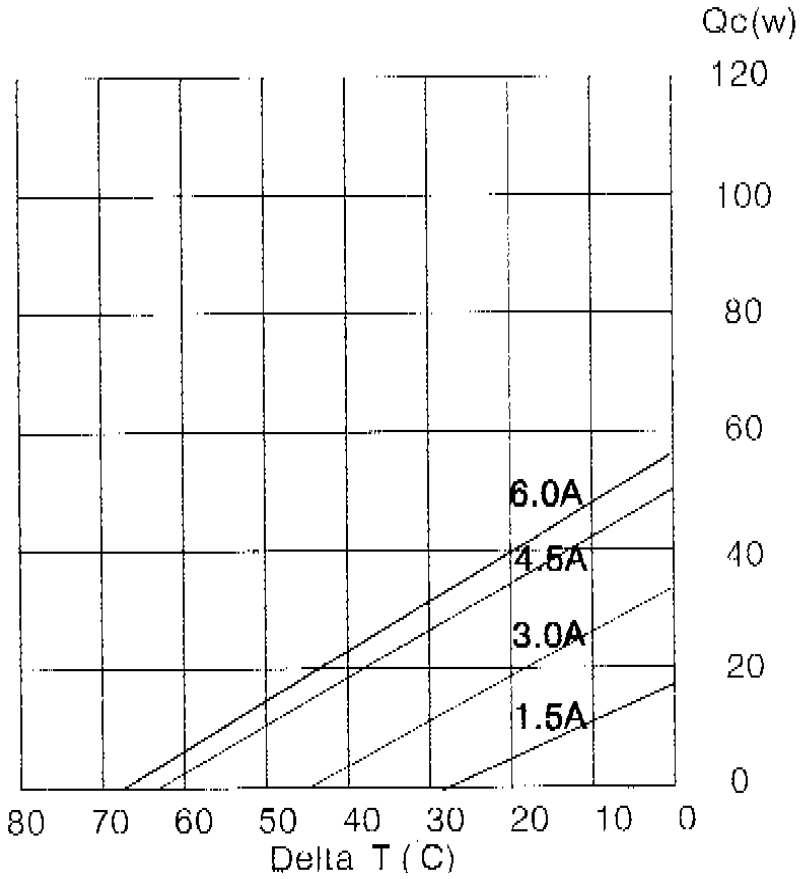
### Performance Specifications

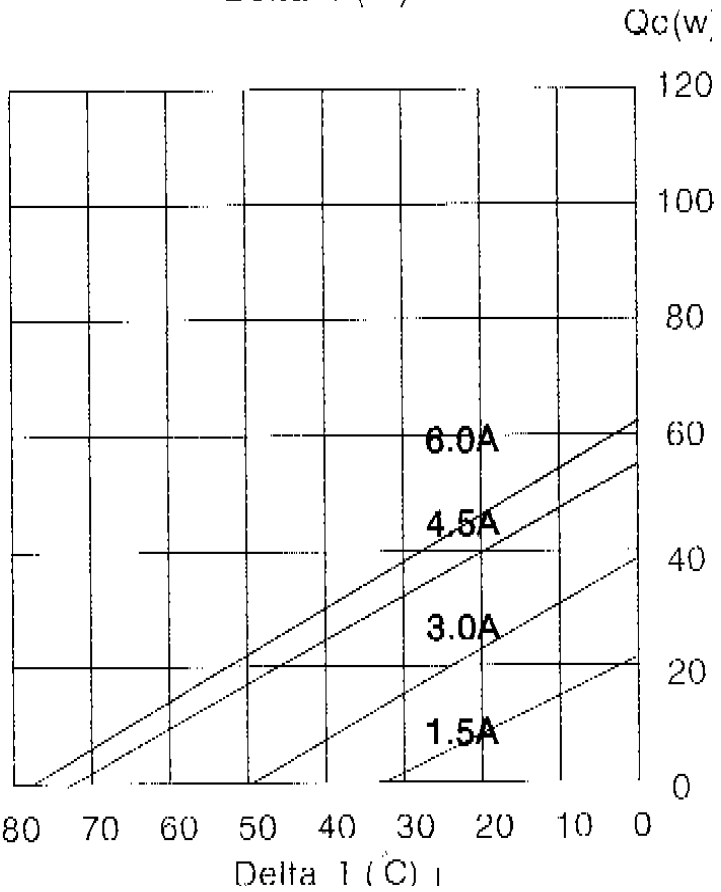
| Hot Side Temperature (º C) | 25º C | 50º C |
|---|---|---|
| Qmax (Watts) | 50 | 57 |
| Delta Tmax (º C) | 66 | 75 |
| Imax (Amps) | 6.4 | 6.4 |
| Vmax (Volts) | 14.4 | 16.4 |
| Module Resistance (Ohms) | 1.98 | 2.30 |

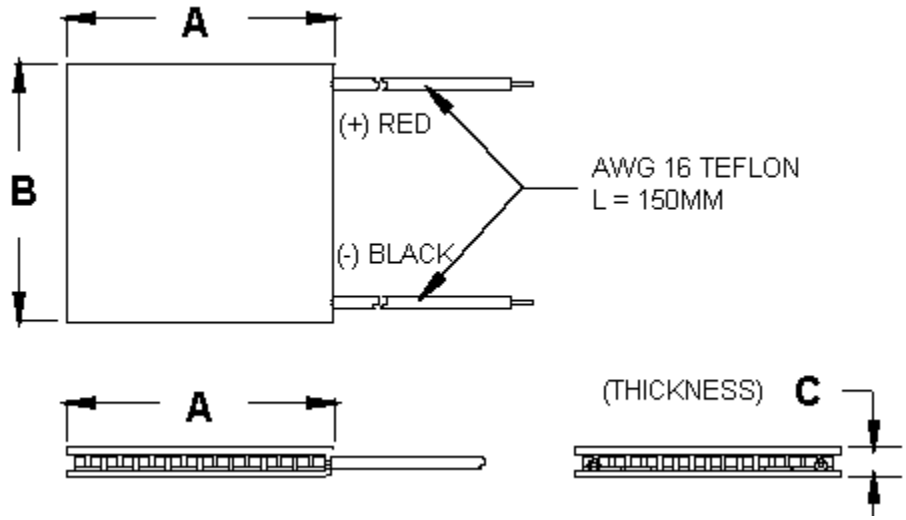
Performance curves on page 2


Th=25 C
V(v)
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
6.0A
4.5A
3.0A
1.5A
80 70 60 50 40 30 20 10 0
Delta T ( C)


Th 50 C
V(v)
18.0
15.0
12.0
9.0
6.0
3.0
0.0
6.0A
4.5A
3.0A
1.5A
80 70 60 50 40 30 20 10 0
Delta T ( C)


Qc(w)
120
100
80
60
40
20
0
6.0A
4.5A
3.0A
1.5A
80 70 60 50 40 30 20 10 0
Delta T ( C)


Qc(w)
120
100
80
60
40
20
0
6.0A
4.5A
3.0A
1.5A
80 70 60 50 40 30 20 10 0
Delta T ( C)




Ceramic Material: Alumina ($Al_2O_3$)
Solder Construction: 138ºC, Bismuth Tin (BiSn)

**Size table:**

| A | B | C |
|---|---|---|
| 40 | 40 | 3.8 |

**Operating Tips**

- Max. Operating Temperature: 138°C
- Do not exceed Imax or Vmax when operating module.
- Life expectancy: 200,000 hours
- Failure rate based on long time testings: 0.2%.