

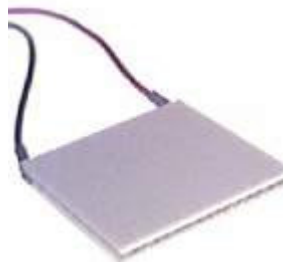


Thermoelectric Cooler

TEC1-12708

Performance Specifications

Hot Side Temperature (° C)	25° C	50° C
Qmax (Watts)	71	79
Delta Tmax (° C)	66	75
I _{max} (Amps)	8.5	8.4
V _{max} (Volts)	15.4	17.5
Module Resistance (Ohms)	1.50	1.80



Performance curves on page 2

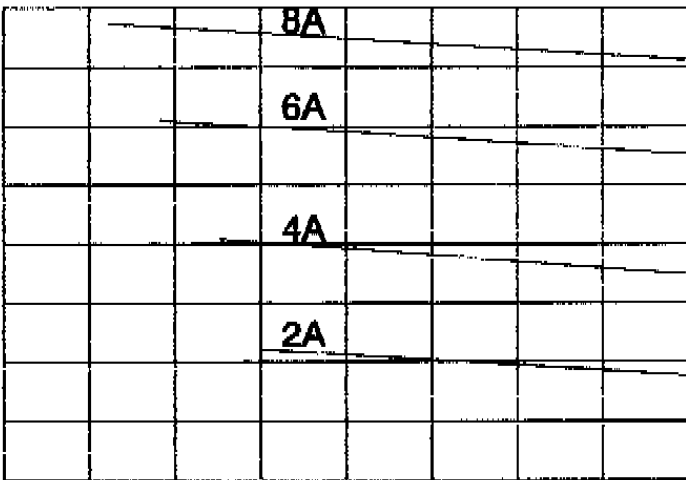


TEC1-12708

$T_h = 25^\circ\text{C}$

V(v)

16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0

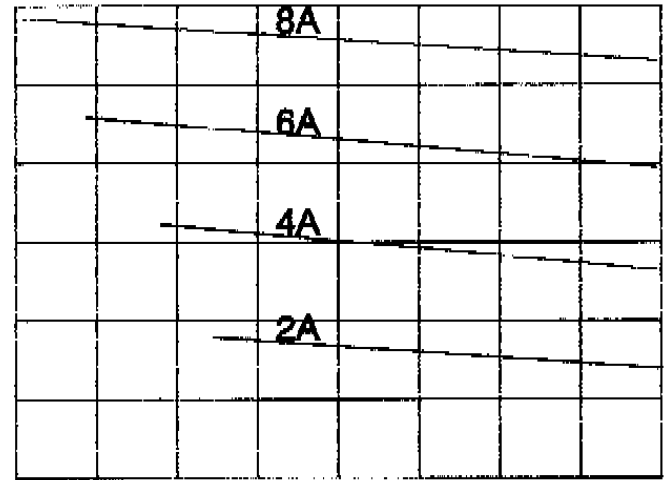


Delta T ($^\circ\text{C}$)

$T_h = 50^\circ\text{C}$

V(v)

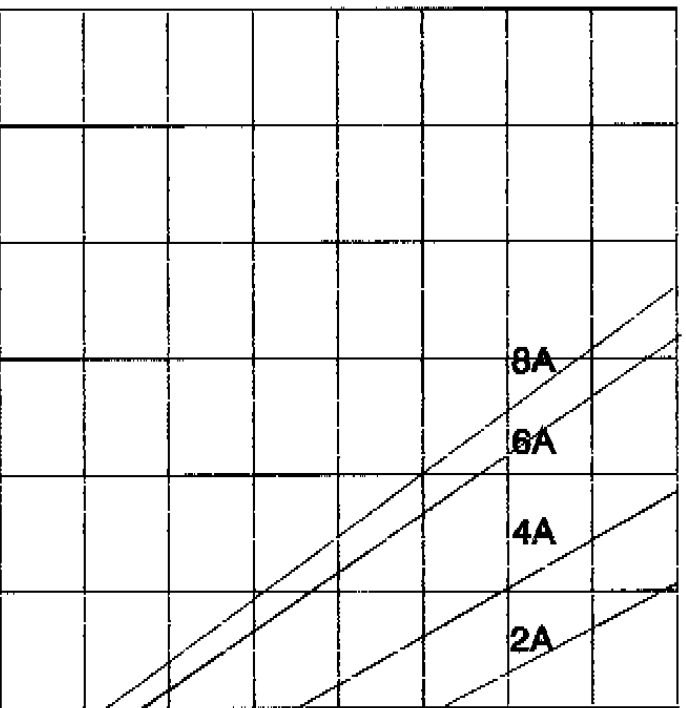
18.0
15.0
12.0
9.0
6.0
3.0
0.0



Delta T ($^\circ\text{C}$)

Qc(w)

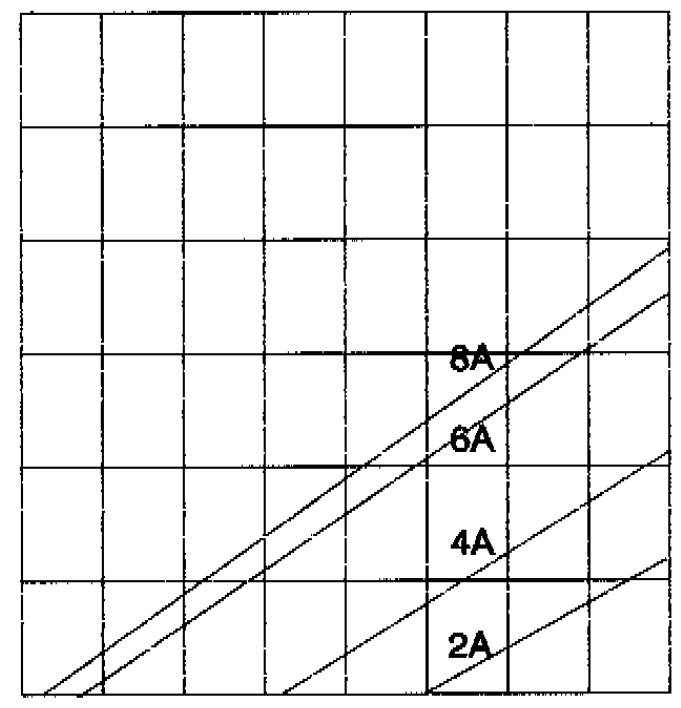
120
100
80
60
40
20
0



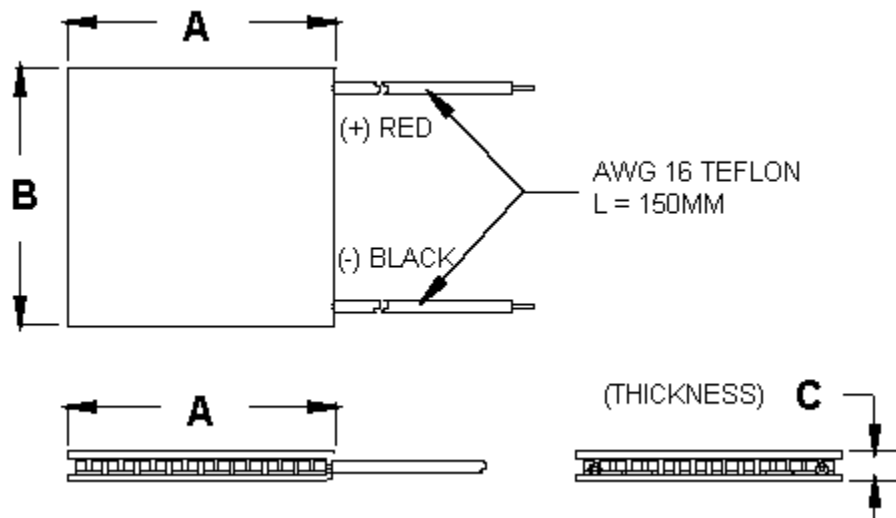
Delta T ($^\circ\text{C}$)

Qc(w)

120
100
80
60
40
20
0



Delta T ($^\circ\text{C}$)



Ceramic Material: Alumina (Al_2O_3)
Solder Construction: 138°C, Bismuth Tin (BiSn)

Size table:

A	B	C			
40	40	3.5			

Operating Tips

- Max. Operating Temperature: 138°C
- Do not exceed I_{max} or V_{max} when operating module.
- Life expectancy: 200,000 hours
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- Please consult HB for moisture protection options (sealing).
- Failure rate based on long time testings: 0.2%.