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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

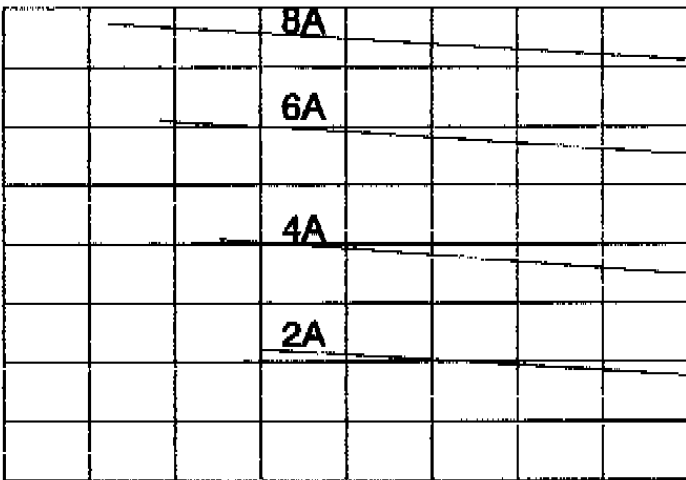


Performance curves on page 2



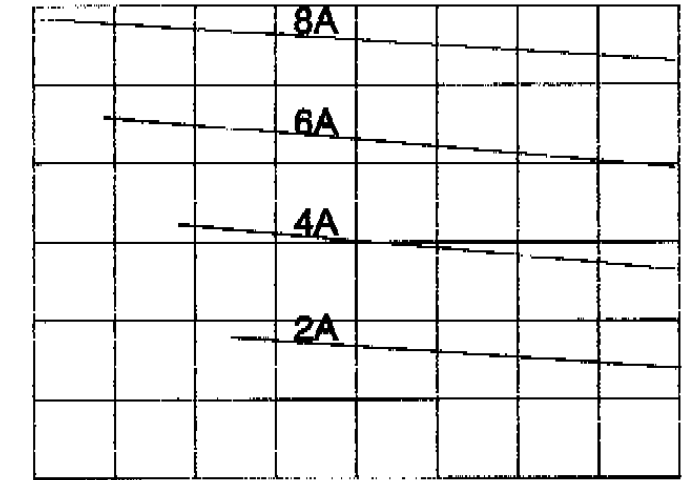
Th = 25 C

V(v)



Th = 50 C

V(v)



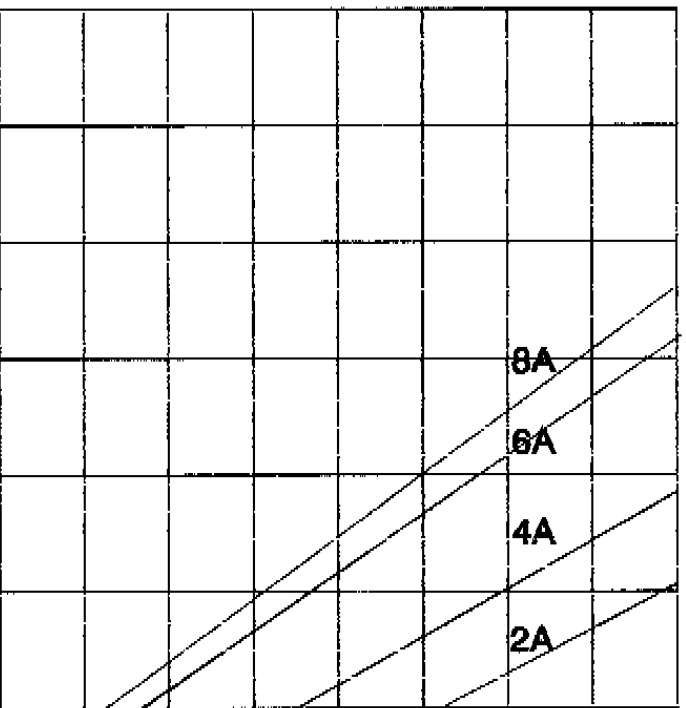
30 70 60 50 40 30 20 10 0

80 70 60 50 40 30 20 10 0

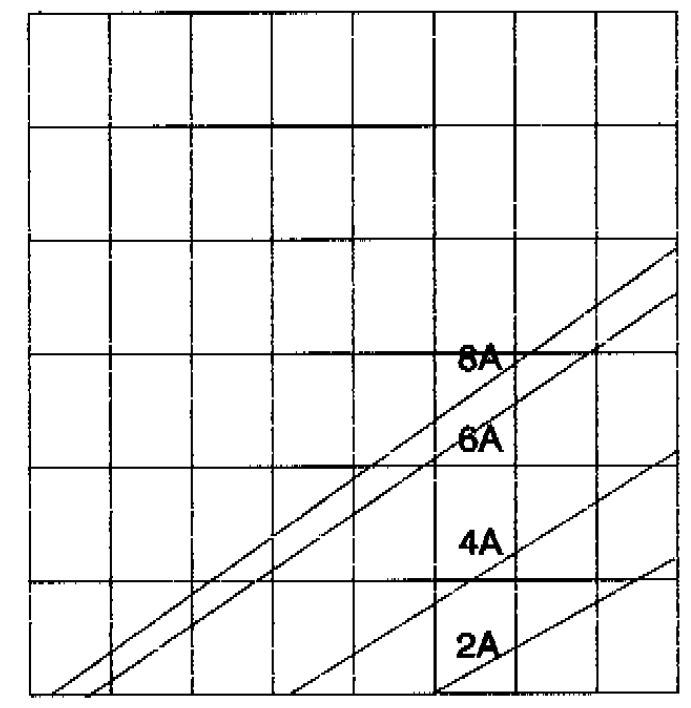
Delta T (C)

Delta T (C)

Qc(w)



Qc(w)

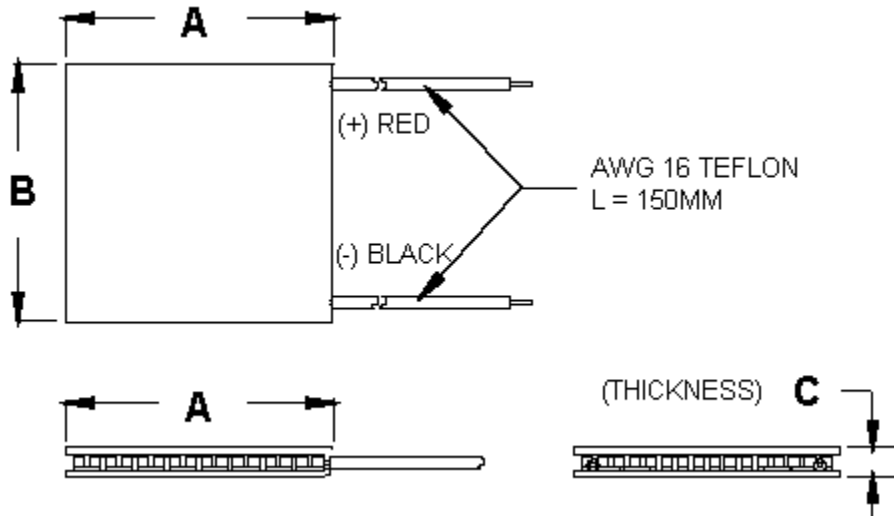


80 70 60 50 40 30 20 10 0

80 70 60 50 40 30 20 10 0

Delta T (C)

Delta T (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%.