



Thermoelectric Cooler

TEC1-12705

Performance Specifications

Hot Side Temperature (°C)	25° C	50° C
Qmax (Watts)	43	49
Delta Tmax (°C)	66	75
I _{max} (Amps)	5.3	5.3
V _{max} (Volts)	14.2	16.2
Module Resistance (Ohms)	2.40	2.75

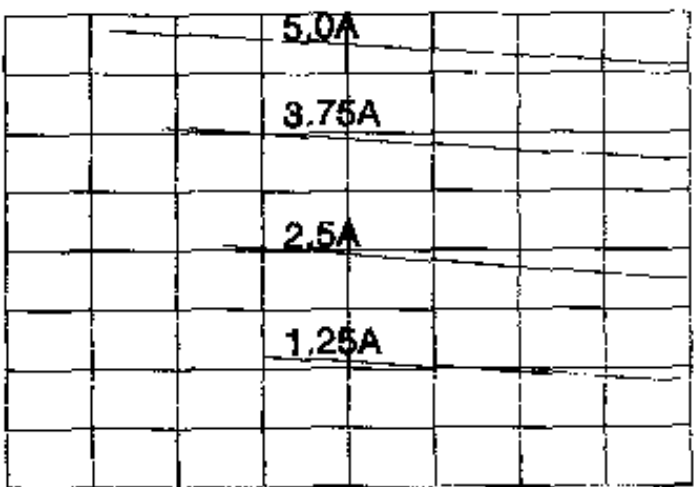


Performance curves on page 2



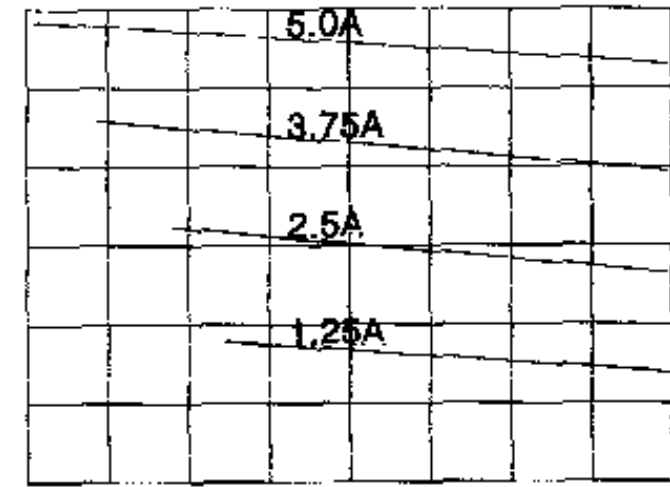
TEC1-12705

Th = 25 C



V (v)

Th = 50 C



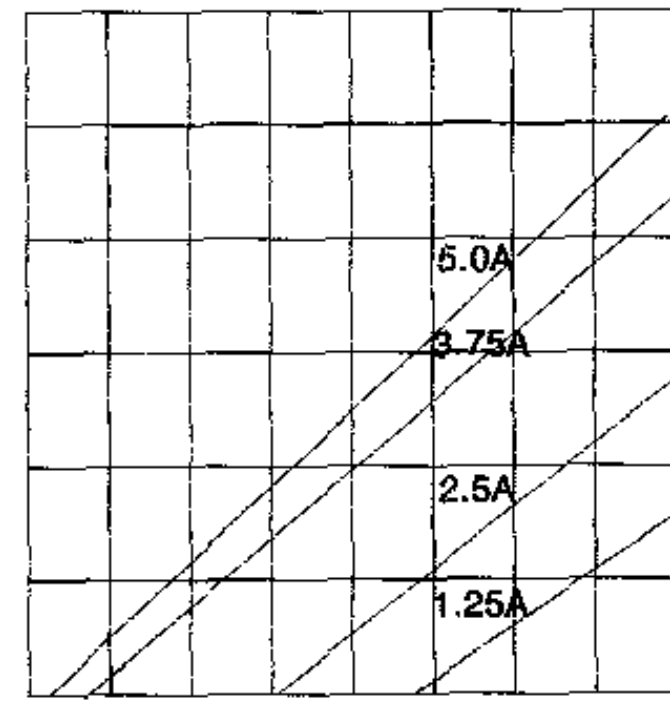
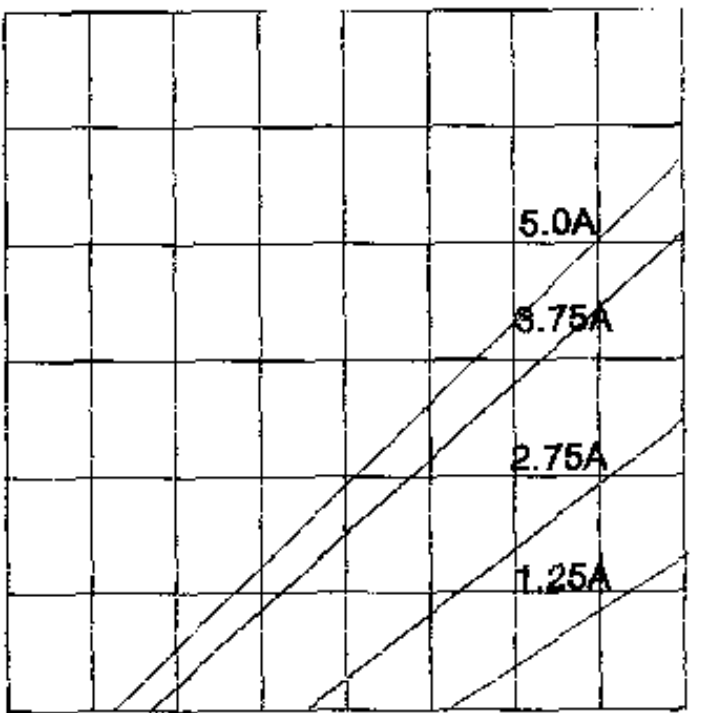
V (v)

Delta T (C)

Delta T (C)

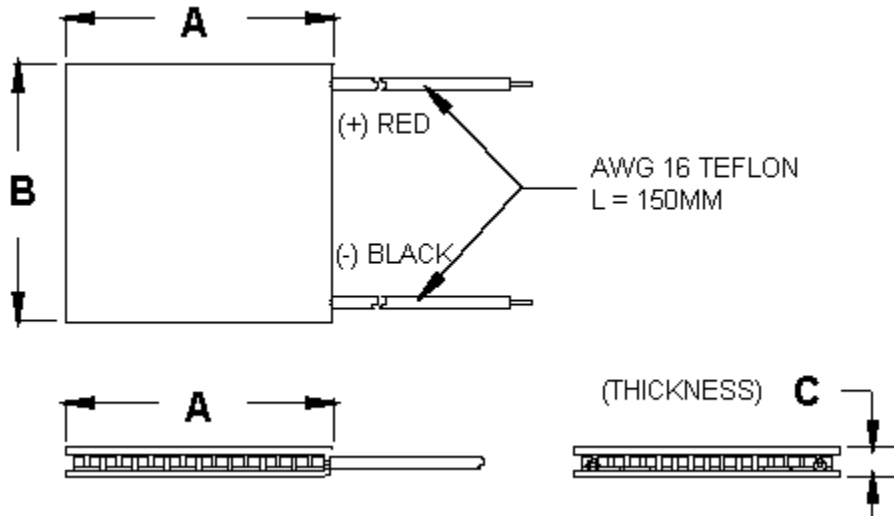
Qc (w)

Qc (w)



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	4.2			

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%.