



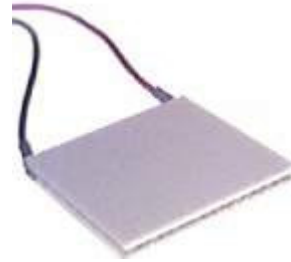
www.DataSheet4U.com

Thermoelectric Cooler

TEC1-12705

Performance Specifications

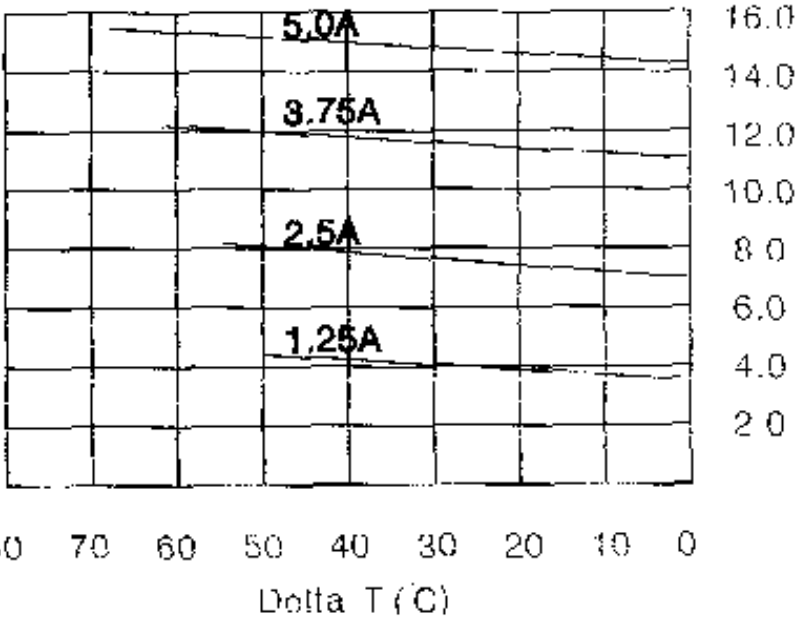
| Hot Side Temperature (°C) | 25° C | 50° C |
|---------------------------|-------|-------|
| Qmax (Watts) | 43 | 49 |
| Delta Tmax (°C) | 66 | 75 |
| I _{max} (Amps) | 5.3 | 5.3 |
| V _{max} (Volts) | 14.2 | 16.2 |
| Module Resistance (Ohms) | 2.40 | 2.75 |



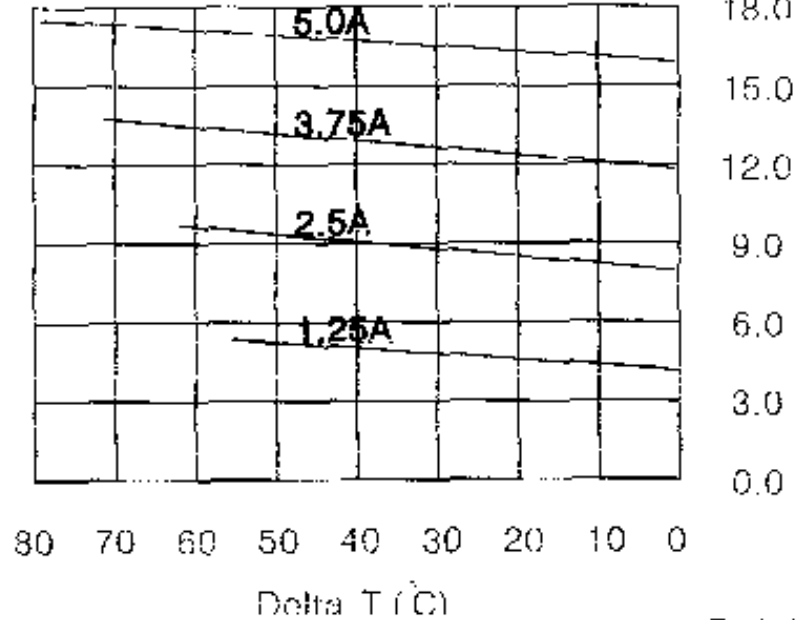
Performance curves on page 2



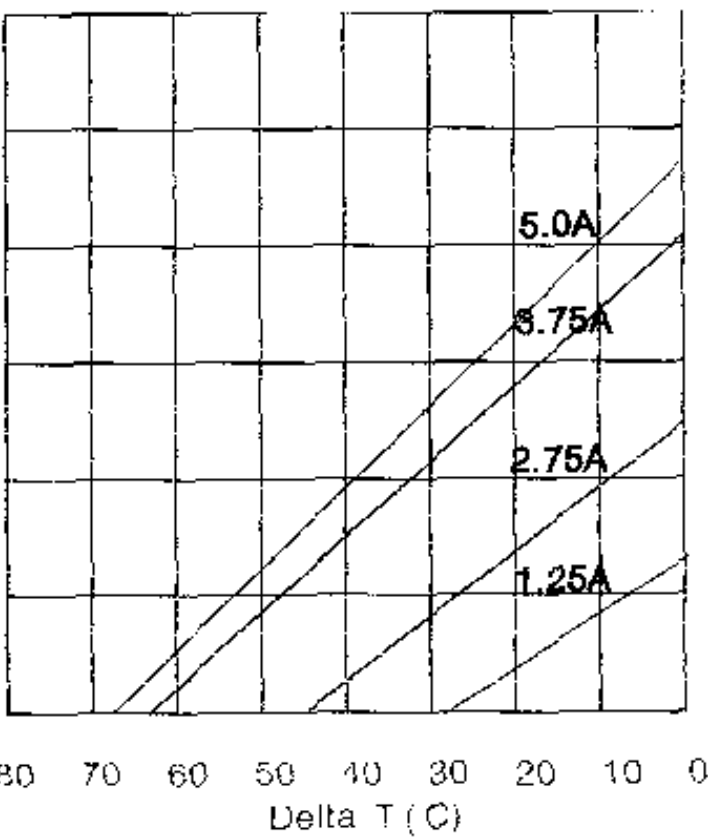
Th = 25 C



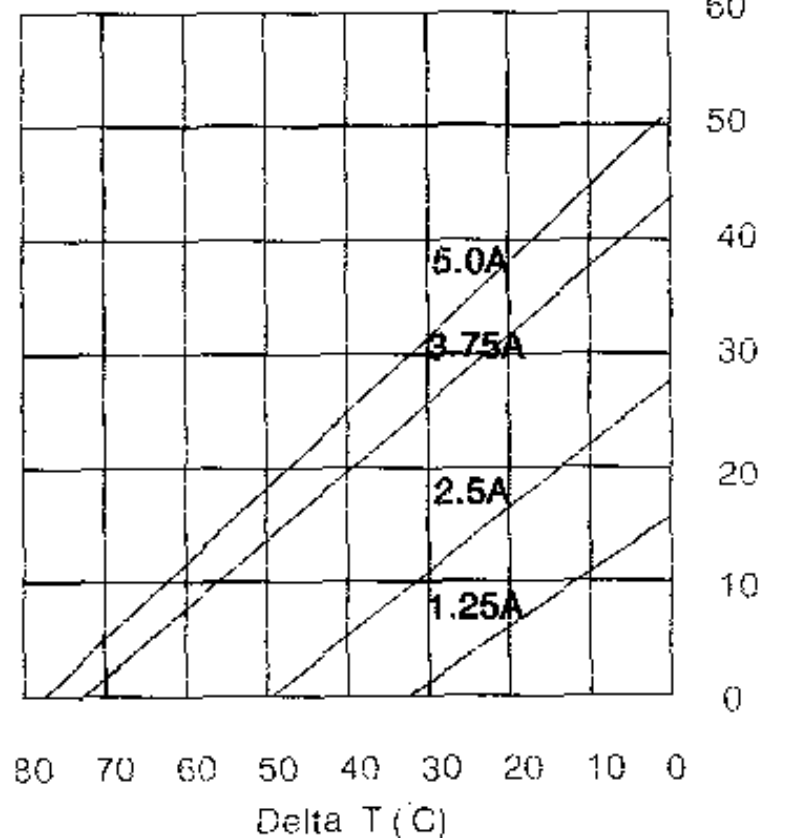
Th = 50 C

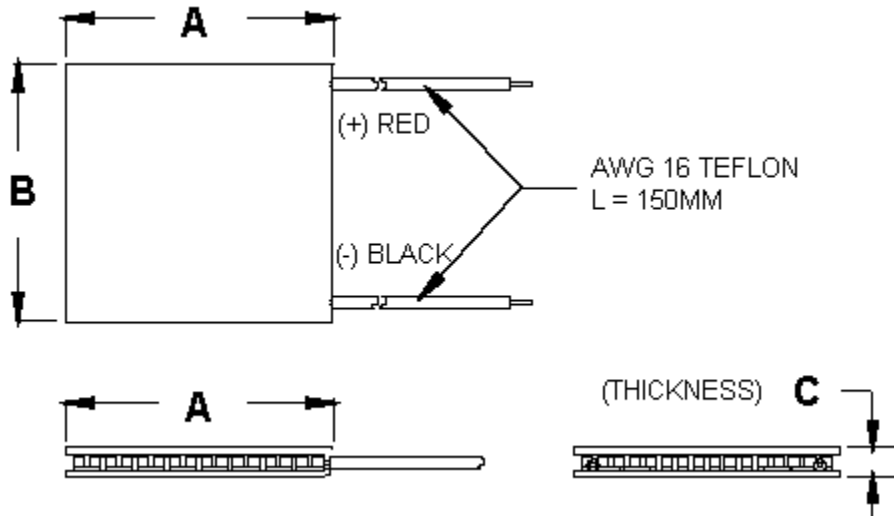


Qc (w)



Qc (w)





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%.