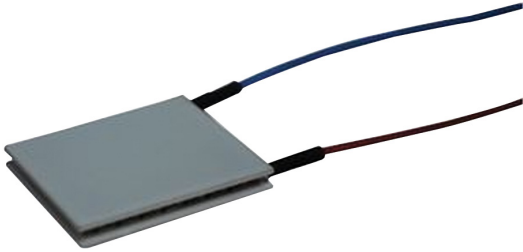


Peltier Cooler - 37.6W

multicomp PRO



Features:

Transducer Function: Thermoelectric modules

Specifications:

| Parameters | | Remarks |
|--------------------------|------------------|---------|
| Internal resistance | 3.5Ω ± 10% | Note-1 |
| I _{max.} | 3.9A | Note-2 |
| V _{max.} | 15.7V | Note-3 |
| | Th=25°C | |
| Q _{max.} | 37W | Note-4 |
| ΔT _{max.} | 73°C | Note-5 |
| Solder Melting Point | 232°C | Note-6 |
| Max. Compress | 1MPa | Note-7 |
| Operating Temperature | -150°C to +200°C | |
| External Depth | 4.8mm | |
| External Length / Height | 40mm | |

Note-1 Measured by AC 4-terminal method at 25°C

Note-2 Max. current at ΔT_{max}

Note-3 Max. voltage at ΔT_{max}

Note-4 Max. cooling capacity at I_{max.}, V_{max.} and ΔT=0°C

Note-5 Max. temperature difference at I_{max.}, V_{max.} and Q=0W
(Max. parameters are measured in a vacuum 1.3P)

Note-6 The solder melting point of thermoelectric module

Note-7 Recommended Max. compression (not destruction limit)

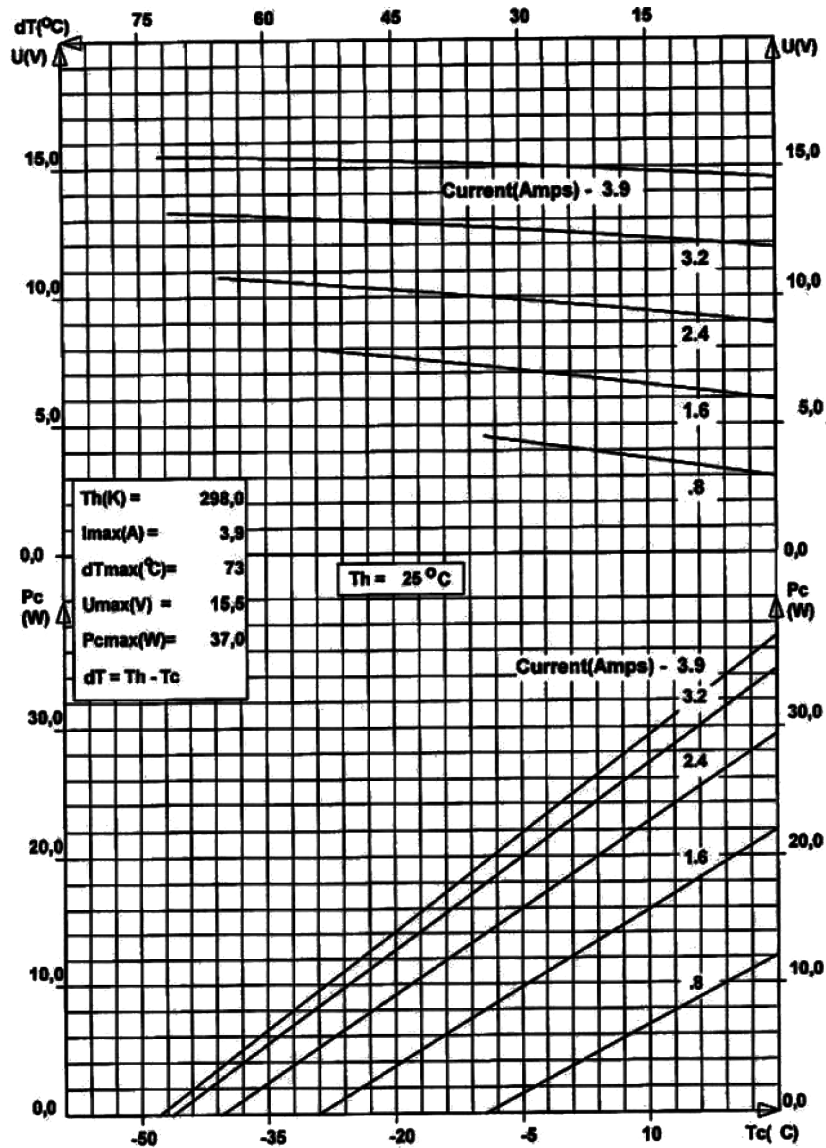
Recommendations:

- Long lifetime in power cycling mode with polarity change
- Recommended operation current not higher than 0.7 of I_{max}
- Preferable application; thermal management / cycling at high temperatures

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

multicomp PRO

2-3 Performance Graph (298K)



Part Number Table

| Description | Part Number |
|-----------------------|------------------|
| Peltier Cooler, 37.6W | MCPF-127-14-25-E |

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.