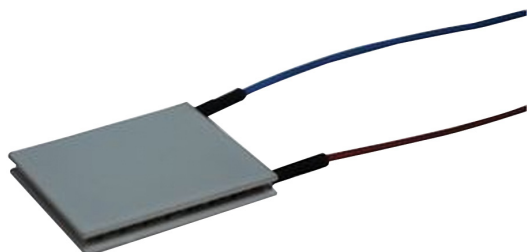


Peltier Cooler - 37.6W



Features:

Transducer Function: Thermoelectric modules

Specifications:

Parameters		Remarks
Internal resistance	$3.5\Omega \pm 10\%$	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

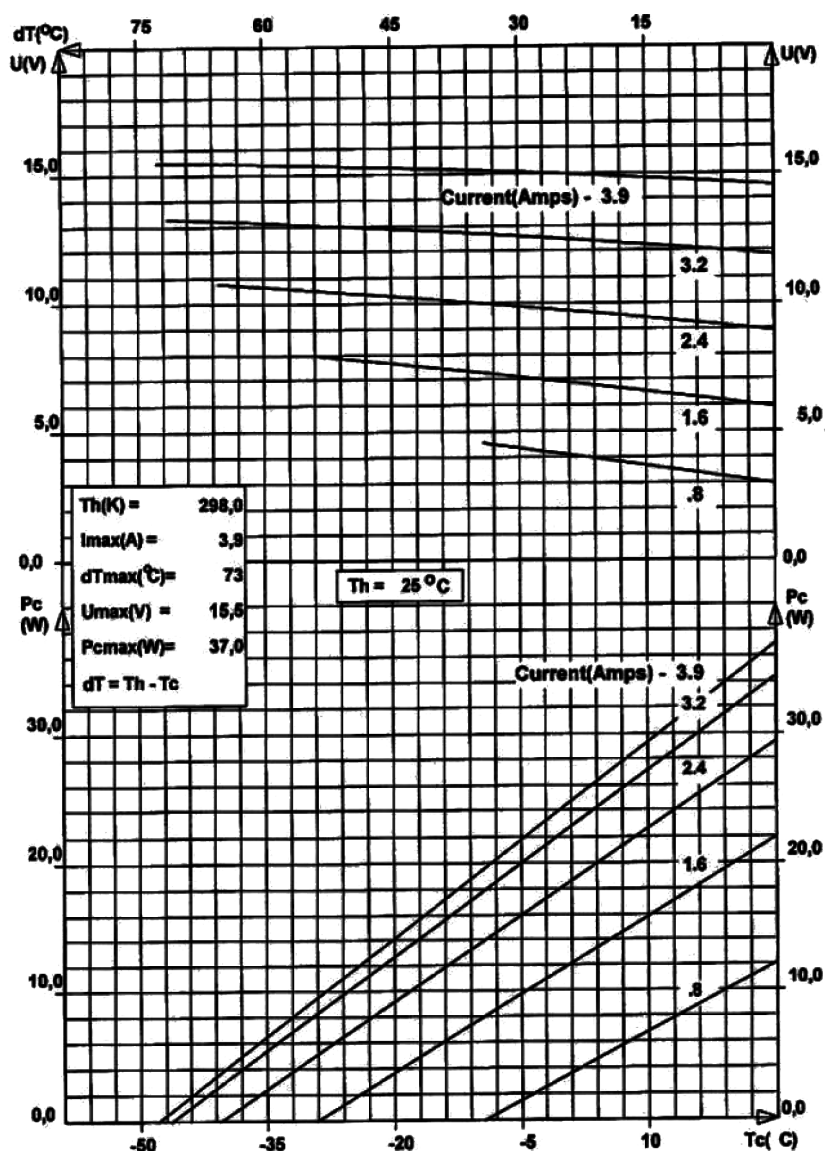
Note-7 Recommended Max. compression (not destruction limit)

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

Peltier Cooler - 37.6W

2-3 Performance Graph (298K)



Part Number Table

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