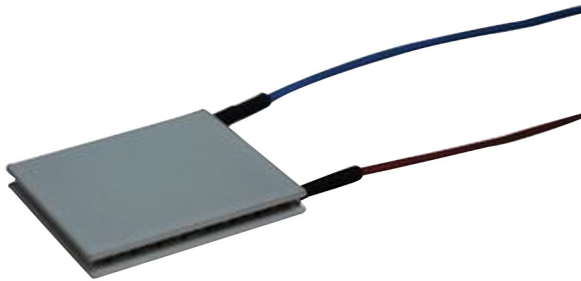


Peltier Cooler - 19W



Features:

Transducer Function: Thermoelectric modules

Specifications:

Parameters		Remarks
Internal resistance	0.41Ω ± 10%	Note-1
I _{max.}	8.5A	Note-2
V _{max.}	3.8V	Note-3
	Th=25°C	
Q _{max.}	19W	Note-4
ΔT _{max.}	70 °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	20mm	

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)

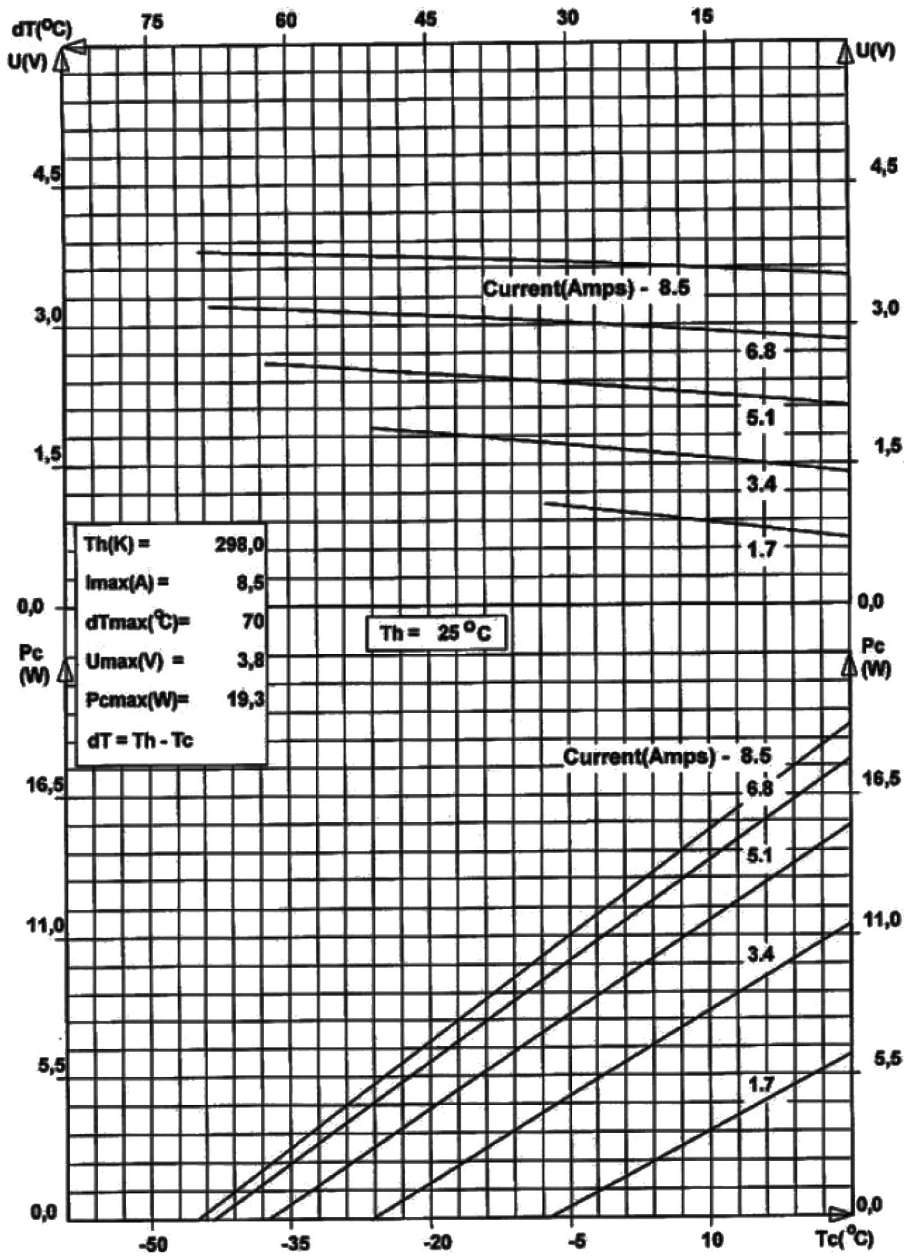
Recommendations:

- ON/OFF cycling mode reliability at high temperature
- Recommended operation current not higher than 0.7 of I_{max}
- Preferable application; thermal management

Peltier Cooler - 19W



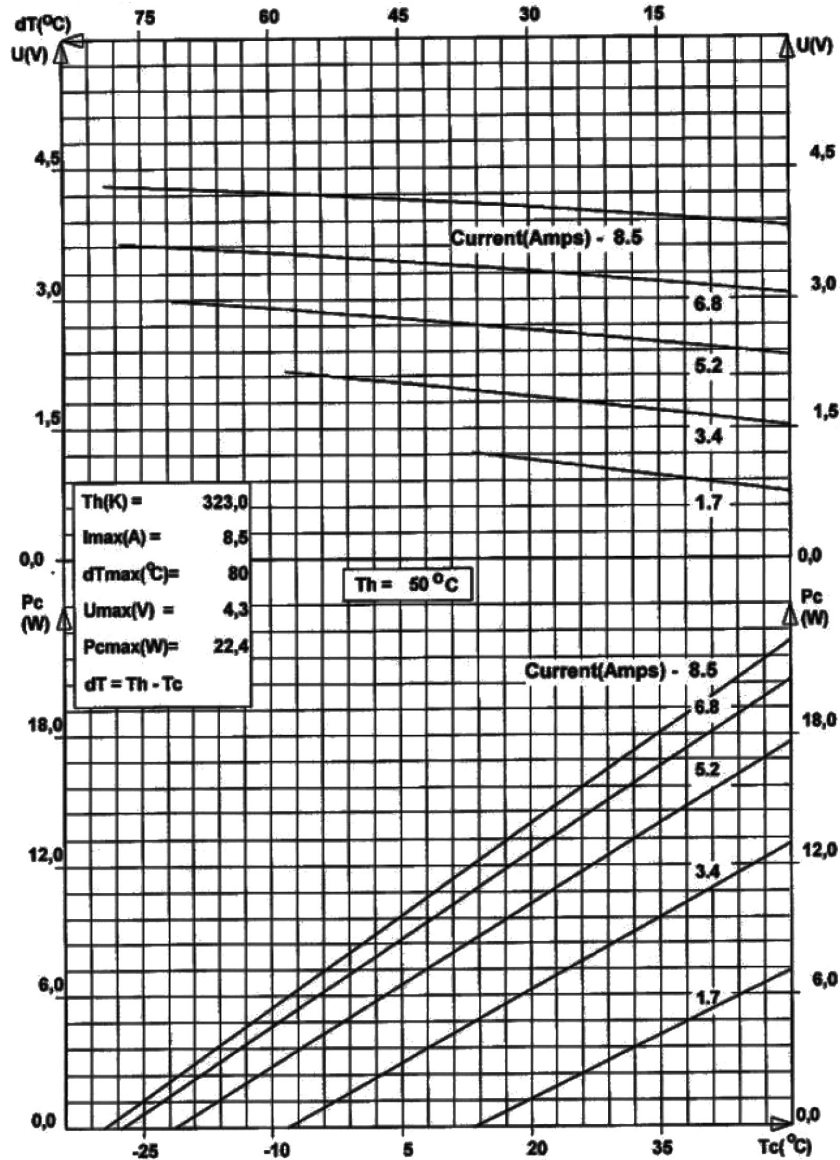
2-3 Performance Graph (298K)



Peltier Cooler - 19W



2-3 Performance Graph (323K)



Part Number Table

Description	Part Number
Peltier Cooler, 19W	MCPF-031-14-11

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