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TEC datasheet HT100222M(40,40)

Description

The HT (High Temperature) series is designed for harsh high-temperature environments and long service life applications. It is assembled with high-strength Bismuth telluride thermoelectric material, high thermal conductivity and high insulation DBC (direct bonding copper) ceramics and hightemperature solder, which is suitable for high-temperature environment and industrial product applications. There are over 200 typical models available for selection. This series provides customized services and can also customize flat shaped cooling sheets.

Features

DC operation and Precise temperature control No sound or vibration and solid-state High performance and high reliability **RoHS** complicant Provide the customization service.

Peformance Specification

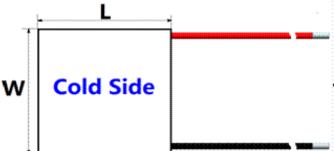
Temperature stabilizer Medical instruments Industrial and testing instruments Blood analysis instrument

Thermal shock apparatus

APPLICATIONS

Hot side temperature 25°C		50°C	Hot side temperature when working	
QCmax (Watts)	125.5	134.3	Qc When dT=0 and I=Imax	
Delta Tmax (°C)	72.0	76.0	dT when I=Imax and Qc=0	
lmax (amps)	8.8	8.8	Current When dT=dTmax or Qc=Qcmax	
Umax (Voltage)	24.1 26.5		Voltage When dT=dTmax and I=Imax	
AC resistance (ohms)	2.21	2.43	The module resistance is tested under AC	
Tolerance	± 12%		For thermal and electricity parameters	

Geometric Characteristics





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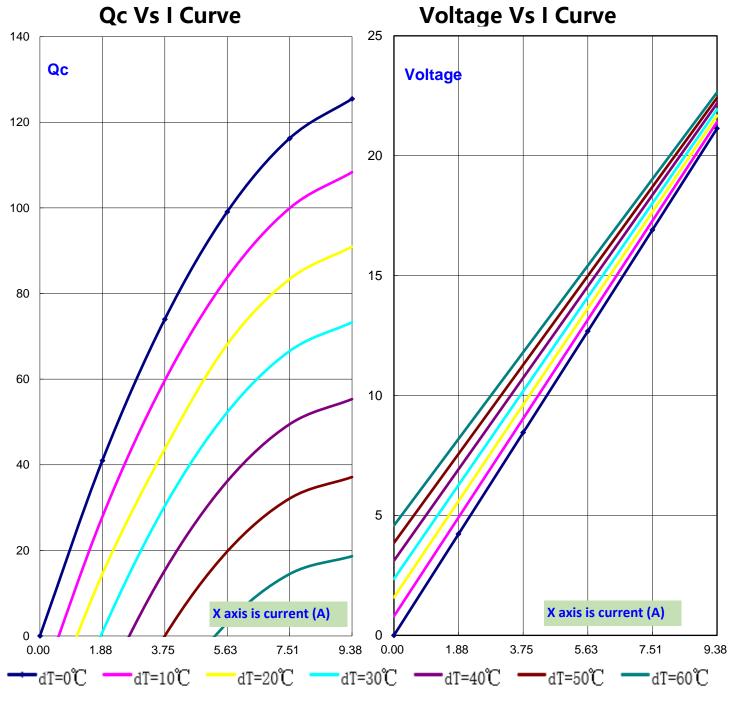
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Dimensions in millimeters					wire		
	Length	Width	Thickness	Note	Model	Length	Terminal
	40.0 ± 0.5	40.0 ± 0.5	3.48 ± 0.10		Customizable	Customizable	Customizable

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Performance Curves at Th=25 °C



Operation Cautions

TEC is a wide voltage input device that uses a direct current (DC) power supply;

Using voltage/current should be less than the maximum voltage/current;

- Pay attention to force balance during installation to prevent lateral pressure or any form of impact;
- Before Use, installing the hot side of TEC onto the heatsink;
- Use and store in an environment less than 80 °C and less than 80% relative humidity;;

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