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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**

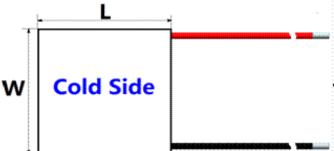
# Temperature stabilizer Medical instruments Industrial and testing instruments Blood analysis instrument

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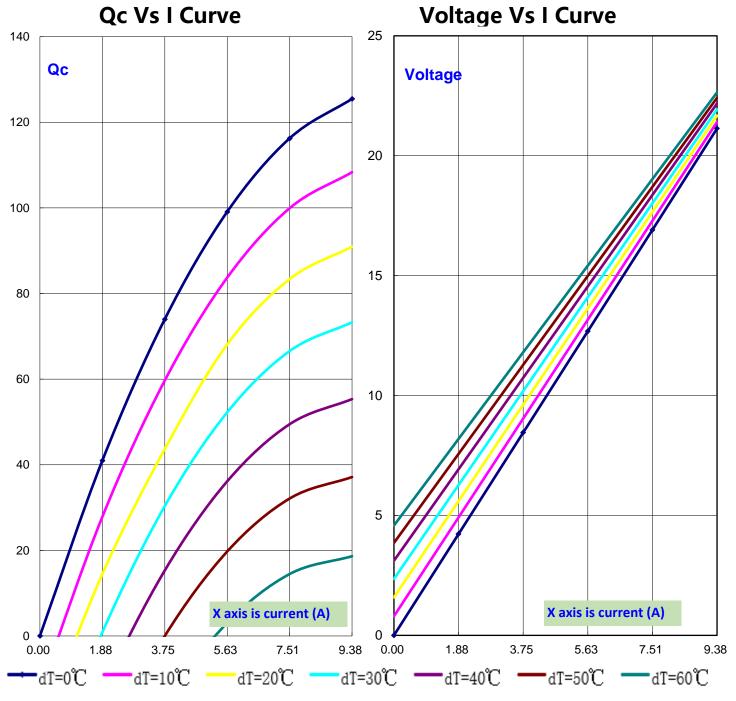
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Dimensions in millimeters					wire		
	Length	Width	Thickness	Note	Model	Length	Terminal
	40.0 ± 0.5	40.0 ± 0.5	3.48 ± 0.10		Customizable	Customizable	Customizable

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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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