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TEC datasheet HT100175(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

Tolerance

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

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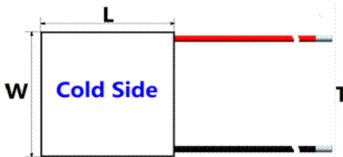
Temperature stabilizer Medical instruments Industrial and testing instruments Blood analysis instrument Thermal shock apparatus

APPLICATIONS

Peformance Specification								
Hot side temperature	25℃ 50℃		Hot side temperature when working					
QCmax (Watts)	158.9	170.1	Qc When dT=0 and I=Imax					
Delta Tmax (°C)	67.0	71.0	dT when I=Imax and Qc=0					
lmax (amps)	11.1	11.1	Current When dT=dTmax or Qc=Qcmax					
Umax (Voltage)	24.1	26.5	Voltage When dT=dTmax and I=Imax					
AC resistance (ohms)	1.74	1.92	The module resistance is tested under AC					

± 12%

Geometric Characteristics





For thermal and electricity parameters

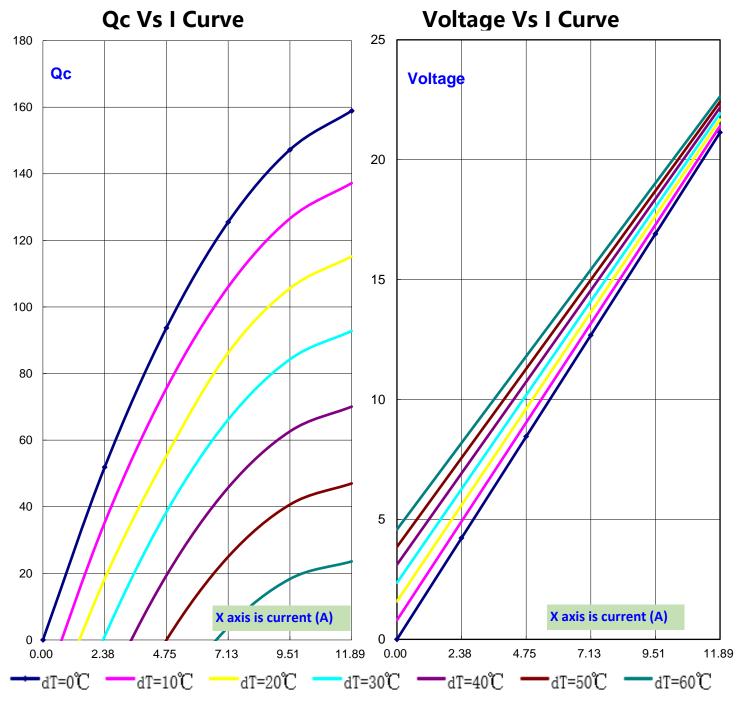
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Dimensions in millimeters			Wire			
Length	Width	Thickness	Note	Model	Length	Terminal
40.0 ± 0.5	40.0 ± 0.5	3.24 ± 0.10		Customizable	Customizable	Customizable

TECooler Technology TEC Datasheet---HT100175(40,40)_NO245190



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;;

TECooler Technology TEC Datasheet---HT100175(40,40)_NO245190