

TEC datasheet HT004017(10,10)

Description

The HT(high temperature)Series of Thermoelectric Modules (TECs) is considered 'the standard' in the thermoelectric industry. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide DBC(Direct Bonding Copper) ceramics and High temperature solder. the HT Series is designed for higher current,high-performance, highly reliablily,and high temperture environment.

Features

DC operation and Precise temperature control

No sound or vibration and solid-state

High performance and high reliability

RoSH complicant

Provide the customization service.

APPLICATIONS

Chillers (Liquid Cooling)

Temperature stabilizer

Biological and medical instruments

Industrial and testing instruments

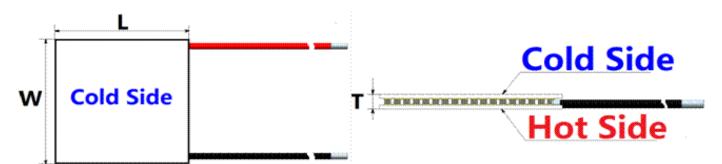
Beauty equipment

Peformance Specification

Hot side temperature	30°C Hot side temperature when working		Hot side temperature when working	
QCmax (Watts)	1.8	2.0	Qc When dT=0 and I=Imax	
Delta Tmax (°C)	67.0	71.0	dT when I=Imax and Qc=0	
Imax (amps)	3.9	3.9	Current When dT=dTmax or Qc=Qcmax	
Umax (Voltage)	0.8	0.8 0.9 Voltage When dT=dTmax and I=lmax		
AC resistance (ohms)	0.17	0.19	The module resistance is tested under AC	
Tolerance	± 9%		For thermal and electricity parameters	

Geometric Characteristics

Dimensions in millimeters

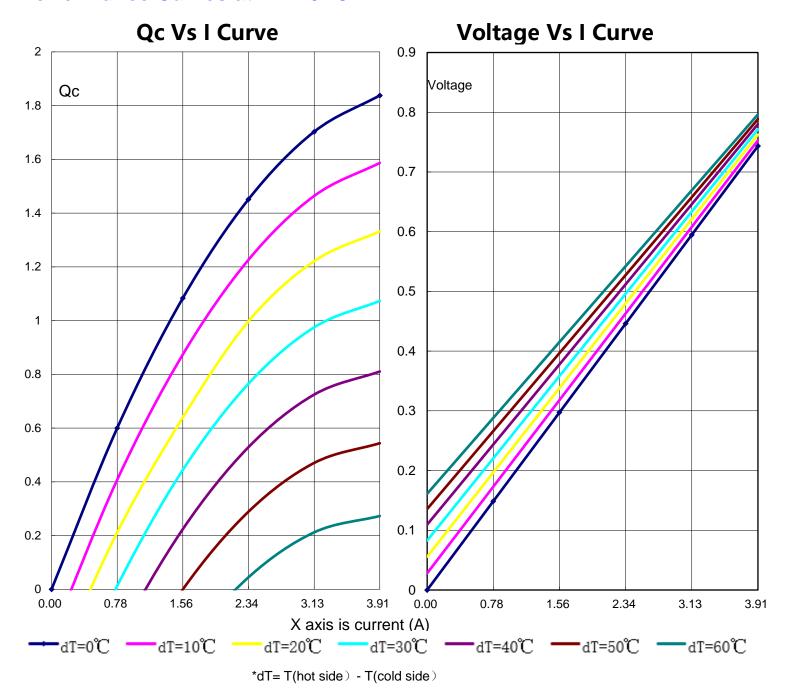


				Wire		
Length	Width	Thickness	Flatness	Model	Length	Terminal
10.0 ± 0.2	10.0 ± 0.2	4.21 ± 0.05	±0.02	Customizable	Customizable	Customizable



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Performance Curves at Th=25 °C



Operation Cautions

- Using DC (DC) power supply and do not exceed Imax or Vmax when operating module;
- Hot side of the module mounted on a heat radiator before turn on the current;
- Operation or storage module below 100 °C
- Attention should be paid to force balance during installation to prevent side pressure or any kind of impact;
- Can use at cycling from 0 to 60 °C, but can not be used with wide range temperature cycling;