TEC datasheet HT064112(40,40)

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

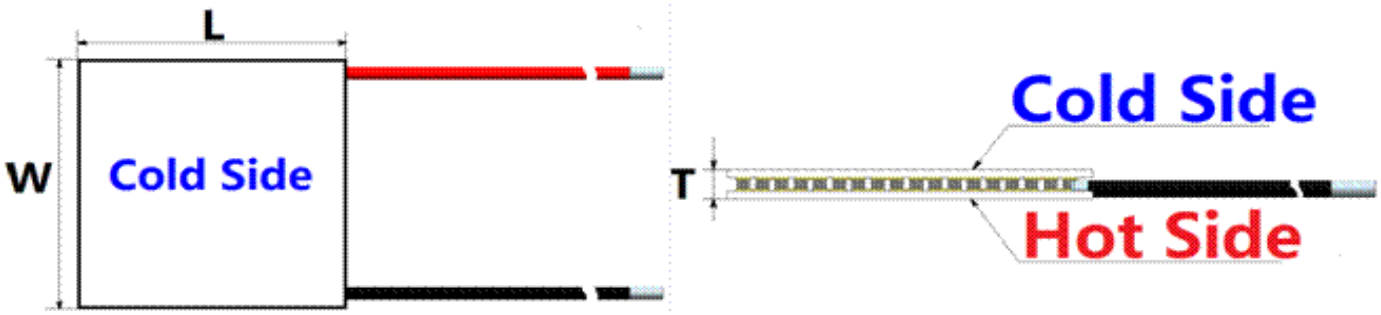
Beauty equipment

Peformance Specification

Hot side temperature	30℃	50℃	Hot side temperature when working
QCmax (Watts)	94.6	101.2	Qc When dT=0 and I=Imax
Delta Tmax (°C)	67.0	71.0	dT when I=Imax and Qc=0
Imax (amps)	11.1	11.1	Current When dT=dTmax or Qc=Qcmax
Umax (Voltage)	15.4	16.9	Voltage When dT=dTmax and I=Imax
AC resistance (ohms)	1.12	1.23	The module resistance is tested under AC
Tolerance	± 12%		For thermal and electricity parameters

Geometric Characteristics

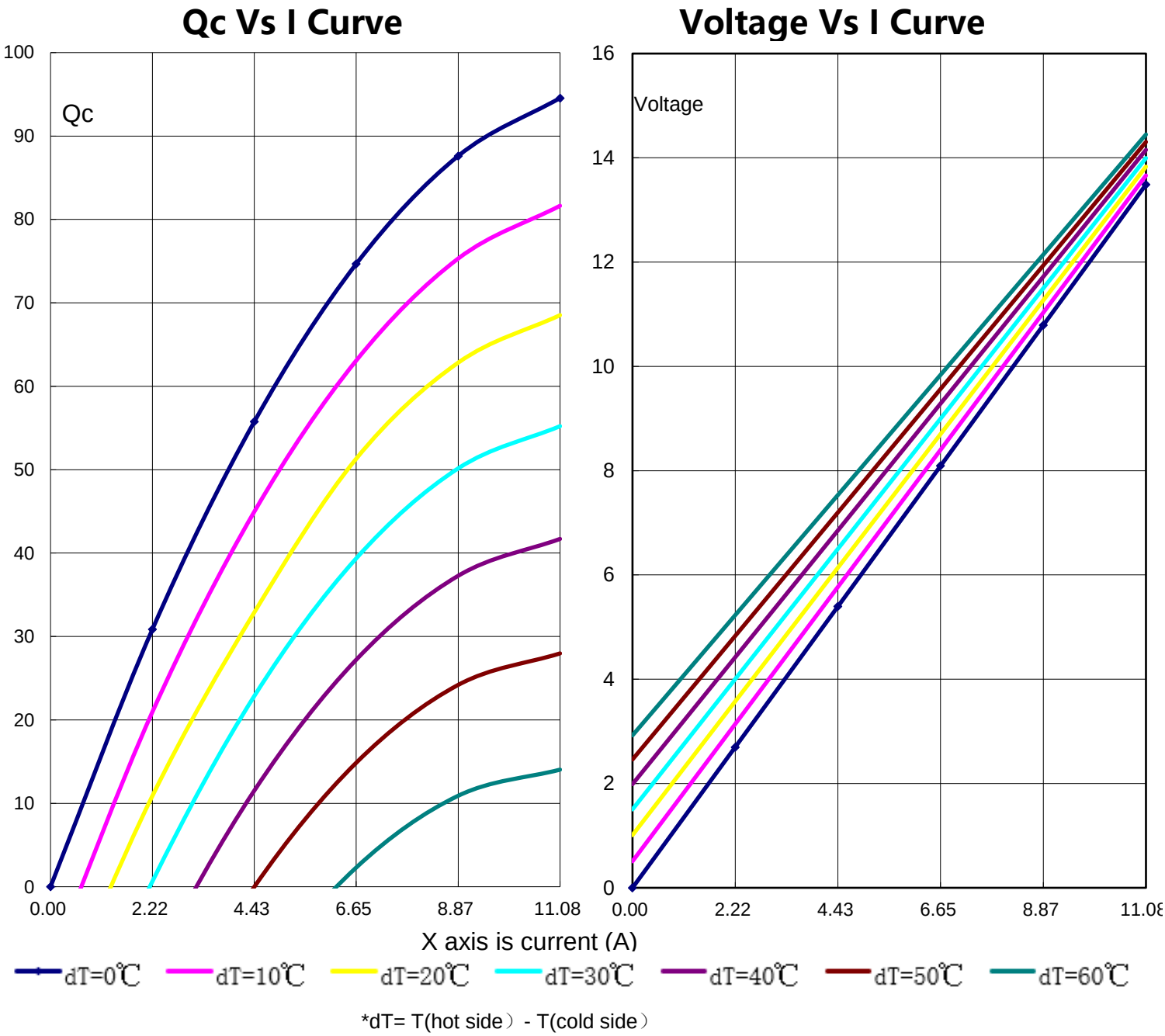
Dimensions in millimeters



				Wire		
Length	Width	Thickness	Flatness	Model	Length	Terminal
40.0 ± 0.5	40.0 ± 0.5	3.22 ± 0.05	±0.02	Customizable	Customizable	Customizable

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Performance Curves at Th=25 ºC



*dT= T(hot side）- T(cold side）

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 90 ºC
- 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 ℃,but can not be used with wide range temperature cycling;