TECOOLER

TEC datasheet HT064200(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.

Peformance Specification

APPLICATIONS

Chillers (Liquid Cooling) Temperature stabilizer Biological and medical instruments Industrial and testing instruments Beauty equipment

Hot side temperature 30°C		50°C	Hot side temperature when working					
QCmax (Watts)	52.8	56.5	Qc When dT=0 and I=Imax					
Delta Tmax (°C)	67.0	71.0	dT when I=Imax and Qc=0					
lmax (amps)	6.2	6.2	Current When dT=dTmax or Qc=Qcmax					
Umax (Voltage)	15.4	16.9	Voltage When dT=dTmax and I=Imax					
AC resistance (ohms)	2.00	2.20	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
40.0 ± 0.5	40.0 ± 0.5	3.86 ± 0.05	±0.02	Customizable	Customizable	Customizable

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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;