

TEC datasheet OT025201(12.5,12.5)

Description

The PCR Series of Thermoelectric Modules (TECs) is designed for high temperature and wide range cooling and heating cycle applications. Assembled with Bismuth Telluride semiconductor material and thermally conductive Aluminum Oxide DBC(Direct Bonding Copper) ceramics. the HT Series is designed for large current, high-performance and temperature cycling.

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.

APPLICATIONS

Temperature stabilizer

Medical instruments

Industrial and testing instruments

Blood analysis instrument

Thermal shock apparatus

Peformance Specification

Hot side temperature	25℃ 50℃		Hot side temperature when working	
QCmax (Watts)	8.3	8.9	Qc When dT=0 and I=Imax	
Delta Tmax (°C)	68.0	72.0	dT when I=Imax and Qc=0	
lmax (amps)	2.4	2.4	Current When dT=dTmax or Qc=Qcmax	
Umax (Voltage)	5.9 6.5		Voltage When dT=dTmax and I=Imax	
AC resistance (ohms)	2.03	2.24	The module resistance is tested under AC	
Tolerance	± 12%		For thermal and electricity parameters	

Geometric Characteristics

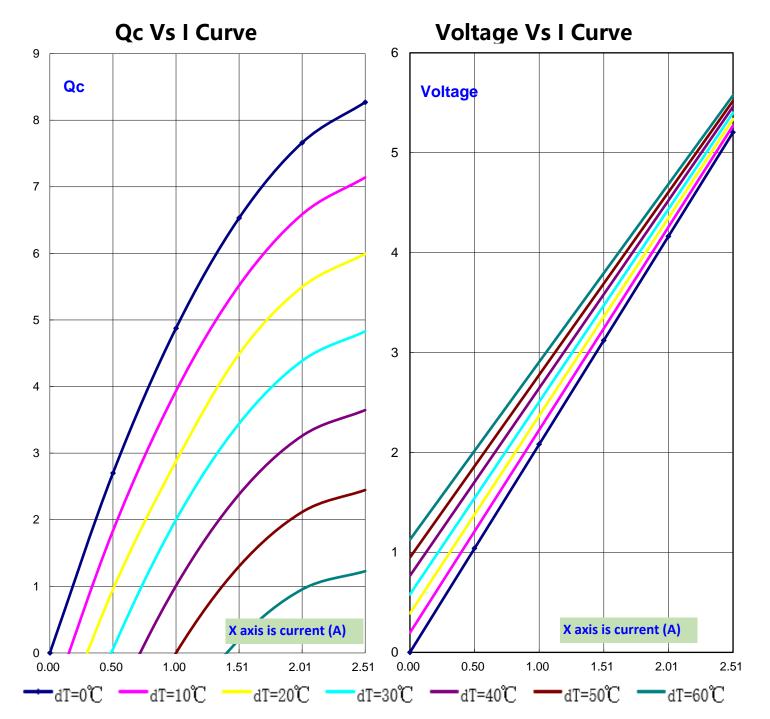


Dimensions in millimeters			Wire			
Length	Width	Thickness	Note	Model	Length	Terminal
12.5 ± 0.3	12.5 ± 0.3	2.90 ± 0.10		Customizable	Customizable	Customizable



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Performance Curves at Th=25 °C



Operation Cautions

- ■制冷片是一个宽电压输入器件,使用直流(DC)电源供电,不同电压输入对应不同的电流输出;
- ■输入电压/电流应小于器件最大电压/电流(见性能参数表),一般输入电压为最大电压的30%~80%;
- ■安装时注意受力平衡,防止侧压或任何形式的撞击;建议使用流动性较好的导热硅脂,并涂布均匀;
- ■使用前应当把制冷片热端安装到散热器上,散热不良会导致制冷片寿命减短;
- ■在小于80℃,小于80%相对湿度的环境中使用和保存;