

date 08/05/2022

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# SERIES: CP50-2 | DESCRIPTION: PELTIER MODULE

#### **FEATURES**

- arcTEC™ structure
- solid state device
- · 2-stage cooler
- precise temperature control
- silent operation





MODEL	input	input	internal	output		output	
	voltage¹	current²	resistance³	Qmax⁴		∆Tmax⁵	
	max	max	<b>typ</b>	T <sub>h</sub> =27°C	T <sub>h</sub> =50°C	<b>T<sub>h</sub>=27°C</b>	T <sub>h</sub> =50°C
	(Vdc)	[A]	[Ω±10%]	(W)	(W)	(°C)	(°C)
CP502550665-2	12.8	5	2.4	23	25	82	92

Notes:

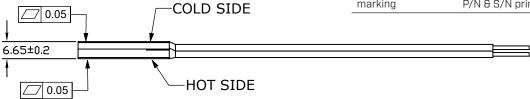
- 1. Maximum voltage at  $\Delta T$  max and  $T_h$ =27°C 2. Maximum current to achieve  $\Delta T$  max
- 3. Measured by AC 4-terminal method at 25°C
- 4. Maximum heat absorbed at cold side occurs at  $I_{max}$ ,  $V_{max}$ , and  $\Delta T=0^{\circ}C$ 5. Maximum temperature difference occurs at  $I_{max}$ ,  $V_{max}$ , and Q=DW ( $\Delta T$  max measured in a vacuum at 1.3 Pa)

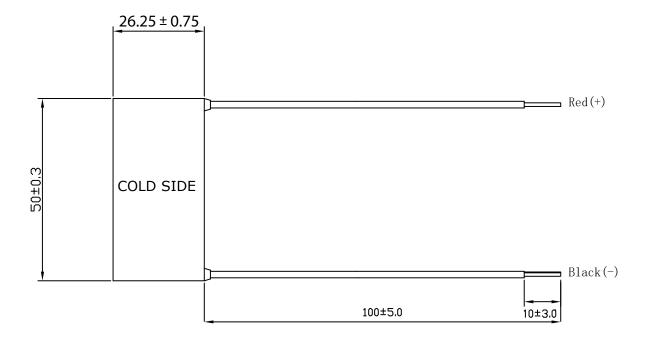
### **SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
solder melting temperature	connection between thermoelectric pairs	235			°C
assembly compression				1	MPa
hot side plate				100	°C
RoHS	yes				

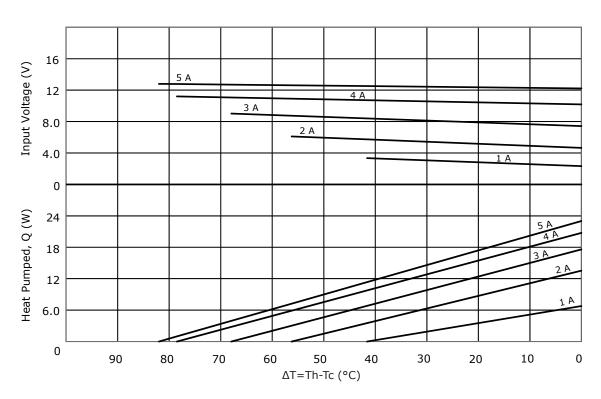
### **MECHANICAL DRAWING**



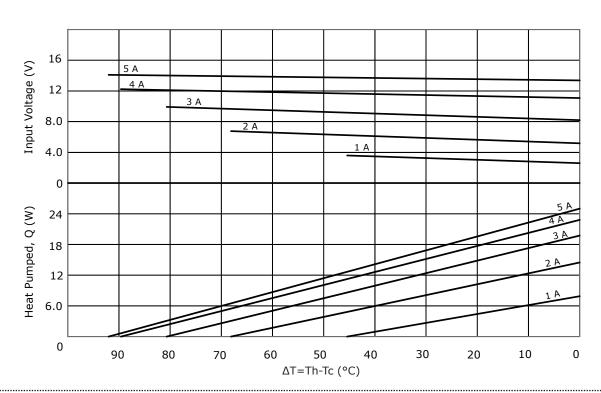




# PERFORMANCE (Th=27°C)



### PERFORMANCE (Th=50°C)



#### **REVISION HISTORY**

rev.	description	date	
1.0	initial release	05/21/2018	
1.01	brand update	10/29/2019	
1.02	logo, datasheet style update	08/05/2022	

The revision history provided is for informational purposes only and is believed to be accurate.



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