

## SERIES: CP45H | DESCRIPTION: PELTIER MODULE

#### **FEATURES**

- arcTEC<sup>™</sup> structure
- solid state device
- precise temperature control
- silent operation



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Notes:

MODEL	input	input	internal	output		output	
	voltage <sup>1</sup>	current <sup>2</sup>	resistance <sup>3</sup>	Qmax⁴		∆Tmax⁵	
	<b>max</b>	max	<b>typ</b>	T <sub>h</sub> =27°C	T <sub>h</sub> =50°C	<b>T<sub>h</sub>=27°C</b>	<b>т<sub>ь</sub>=50°С</b>
	(Vdc)	(A)	(Ω±10%)	(W)	(W)	(°C)	(°С)
CP455535H	15.7	4.5	2.5	41	45	70	77

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1. Maximum voltage at  $\Delta T$  max and T<sub>h</sub>=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=0W ( $\Delta T$  max measured in a vacuum at 1.3 Pa)

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### **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	2011/65/EU				

### **MECHANICAL DRAWING**

units: mm	
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# PERFORMANCE (Th=27°C)



### PERFORMANCE (Th=50°C)



#### **REVISION HISTORY**

rev.	description	date	
1.0	initial release	05/21/2018	

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



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CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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