

Ceramic Plate Series CP14-7-10-L1-W4.5 MFG Part Number: 56500-501



Electrical and Thermal Performance

For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the AMBIENT side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less impactful if located on the side that attaches to the heat exchanger.





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Heat Pumped at Cold Side (Qc) Thot = 35 °C | loperating = 3.3 Amps 1.80 1.60 1.40 1.20 Qc (Watts) 1.00 0.80 0.60 0.40 0.20 0.00 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 0.0 ΔT (°C)



Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = $27 \degree C$





Coefficient of Performance (COP = Qc/Pin)



Specifications

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	1.8 Watts	1.8 Watts	1.9 Watts
ΔTmax (Qc = 0)	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	3.9 Amps	3.9 Amps	3.8 Amps
Vmax (V @ ΔTmax)	0.8 Volts	0.8 Volts	0.8 Volts
Module Resistance	0.18 Ohms	0.19 Ohms	0.20 Ohms
Max Operating Temperature	80 °C		
Weight	4.0 gram(s)		

Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1	4.700 ±0.025 mm 0.185 ± 0.0010 in	0.025 mm / 0.025 mm 0.001 in / 0.001 in	Lapped	Lapped	114.3 mm 4.50 in

Sealing Options

Suffix	Sealant	Color	Temp Range	Description	
	None			No sealing specified	

Notes

Max operating temperature: 80°C Do not exceed Imax or Vmax when operating module Reference assembly guidelines for recommended installation Solder tinning also available on metallized ceramics

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