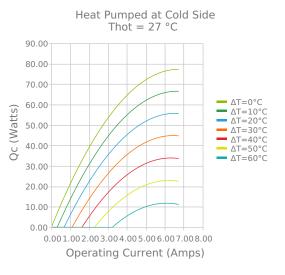


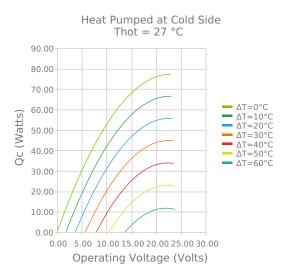
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 138°C, BiSn

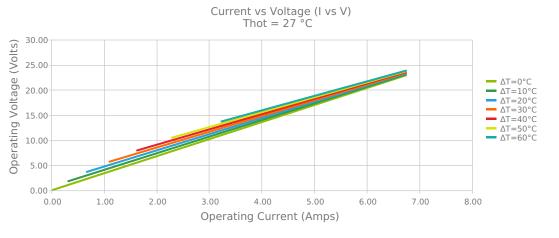
INCHES [MM]

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.



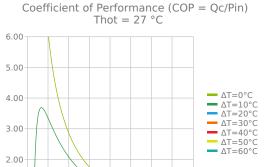


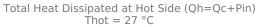




1.00

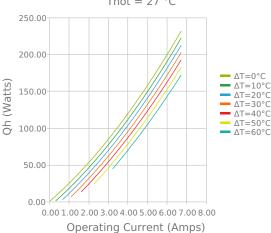
0.00

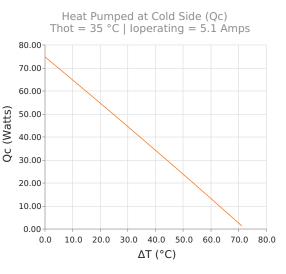




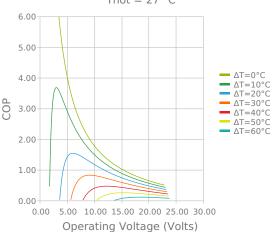
0.00 1.00 2.00 3.00 4.00 5.00 6.00 7.00 8.00

Operating Current (Amps)

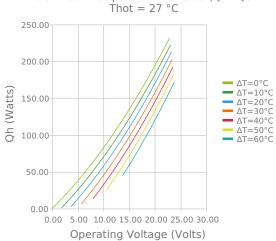




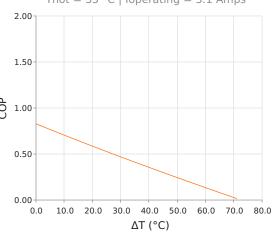
Coefficient of Performance (COP = Qc/Pin) Thot = 27 $^{\circ}$ C



Total Heat Dissipated at Hot Side (Qh=Qc+Pin) $\frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{2} \cdot \frac{1}{2}$



Coefficient of Performance (COP = Qc/Pin) Thot = 35 °C | Ioperating = 5.1 Amps





Specifications

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax ($\Delta T = 0$)	77.3 Watts	79.6 Watts	83.8 Watts
$\Delta T max (Qc = 0)$	70.5°C	73.5°C	78.8°C
Imax (I @ ΔTmax)	6.0 Amps	5.9 Amps	5.9 Amps
Vmax (V @ ΔTmax)	21.7 Volts	22.6 Volts	24.1 Volts
Module Resistance	3.40 Ohms	3.54 Ohms	3.80 Ohms
Max Operating Temperature	80 °C		
Weight	27.0 gram(s)		

Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L2	$3.810 \pm 0.013 \text{ mm}$ $0.150 \pm 0.0005 \text{ in}$	0.013 mm / 0.013 mm 0.0005 in / 0.0005 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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