

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

INCHES [MM]

CONTROL SIDE

AMBIENT SIDE

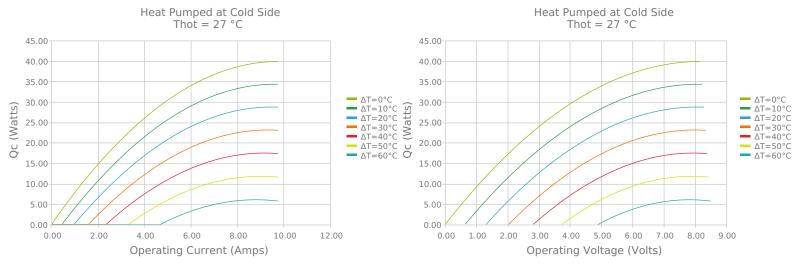
[3.3]

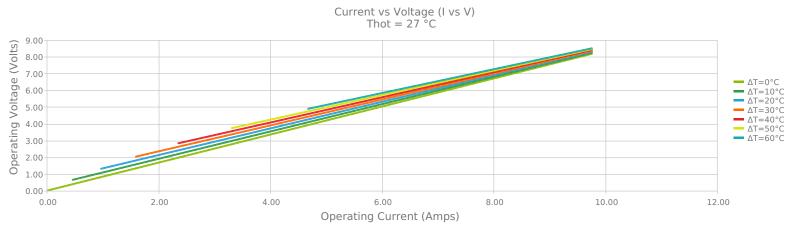
Note: Allow 0.020 in [0.5 mm] around perimeter of the thermoelectric cooler and lead wire attachment to accommodate sealant

EPOXY SEALANT

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.







5.00

0.0

10.0

20.0

30.0

40.0

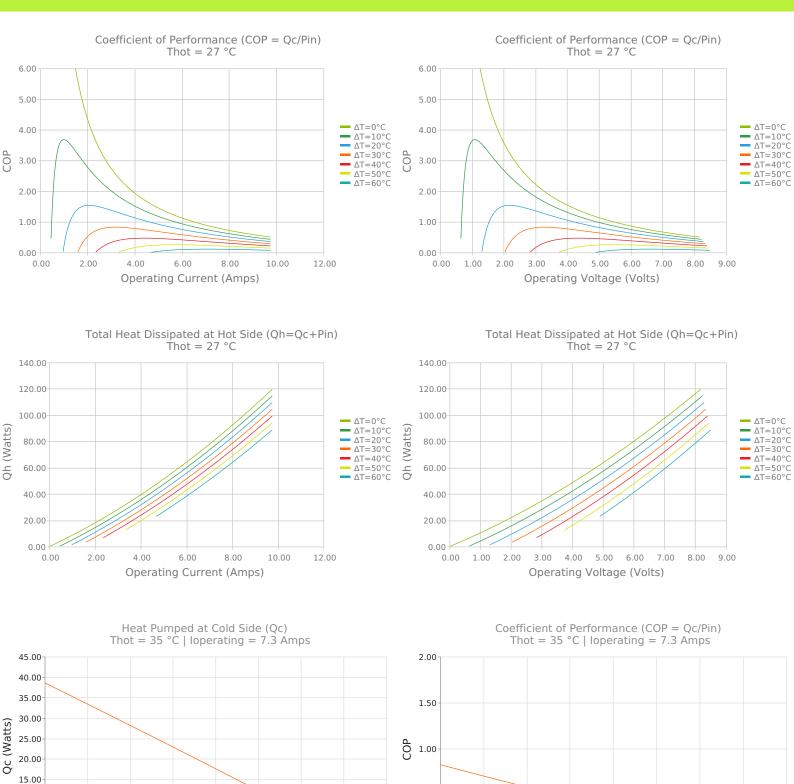
ΔT (°C)

50.0

60.0

70.0

80.0



0.50

0.00-

0.0

20.0

10.0

30.0

40.0

ΔT (°C)

50.0

60.0

70.0

80.0



Specifications

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
Qcmax ($\Delta T = 0$)	39.9 Watts	41.1 Watts	43.2 Watts
$\Delta T max (Qc = 0)$	70.5°C	73.5°C	78.8°C
Imax (I @ ΔTmax)	8.6 Amps	8.6 Amps	8.5 Amps
Vmax (V @ ΔTmax)	7.8 Volts	8.1 Volts	8.6 Volts
Module Resistance	0.84 Ohms	0.87 Ohms	0.94 Ohms
Max Operating Temperature	80 °C		
Weight	12.0 gram(s)		

Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1	$3.327 \pm 0.025 \text{ mm}$ $0.131 \pm 0.0010 \text{ in}$	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
EP	Epoxy	Black	-55 to 150°C	Low density syntactic foam epoxy encapsulant

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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