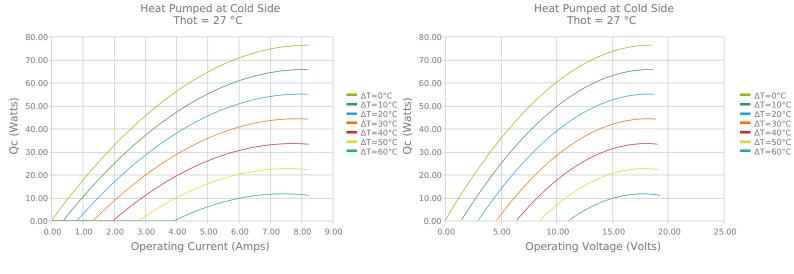


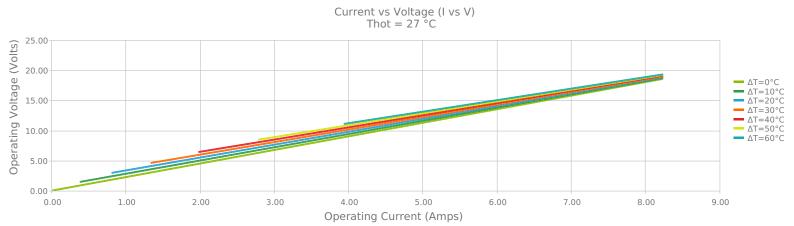
CERAMIC MATERIAL: Al<sub>2</sub>O<sub>3</sub>
SOLDER CONSTRUCTION: 138°C, BiSn

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.







0.00

0.0

10.0

20.0

30.0

40.0

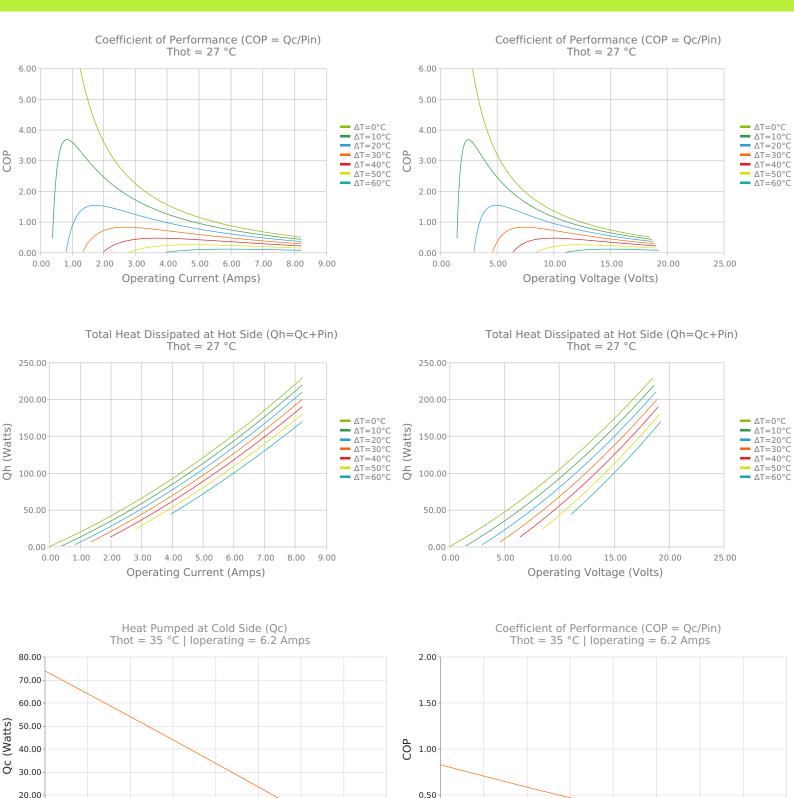
ΔT (°C)

50.0

60.0

70.0

80.0



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 ( $\Delta T = 0$ )	76.3 Watts	78.6 Watts	82.7 Watts
ΔTmax (Qc = 0)	70.5°C	73.5°C	78.8°C
Imax (I @ ΔTmax)	7.3 Amps	7.2 Amps	7.2 Amps
Vmax (V @ ΔTmax)	17.6 Volts	18.3 Volts	19.5 Volts
Module Resistance	2.25 Ohms	2.34 Ohms	2.52 Ohms
Max Operating Temperature	80 °C		
Weight	19.0 gram(s)		

### Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L1	$3.200 \pm 0.025 \text{ mm}$ $0.126 \pm 0.0010 \text{ in}$	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
	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

Any information furnished by Tark Thermal Solutions and its agents, whether in specifications, data sheets, product catalogues or otherwise, is believed to be (but is not warranted as being) accurate and reliable, is provided for information only and does not form part of any contract with Tark Thermal Solutions. All specifications are subject to change without notice. Tark Thermal Solutions assumes no responsibility and disclaims all liability for losses or damages resulting from use of or reliance on this information. All Tark products are sold subject to the Tark Thermal Solutions Terms and Conditions of sale (including Tark's limited warranty) in effect from time to time, a copy of which will be furnished upon request.

 $\ensuremath{\mathbb{C}}$  Copyright 2025 Tark Thermal Solutions, Inc. All rights reserved.

Revision: 00 Date: 06-01-2022

Print Date: 05-16-2025