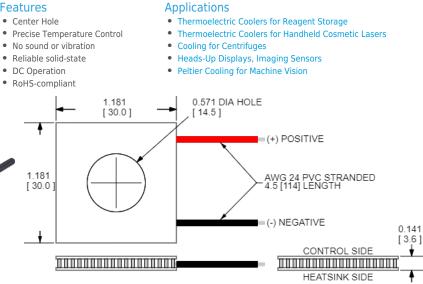
Annular SH Series Thermoelectric Cooler

And and a second second

The SH10-95-06-L-W4.5 is an annular-style thermoelectric cooler. The hot and cold side ceramics have a circular hole in the center to accommodate light protrusion for optics, mechanical fastening or temperature probe. It has a maximum Qc of 19.1 Watts when $\Delta T = 0$ and a maximum ΔT of 70.5 °C at Qc = 0.

Features

- Center Hole

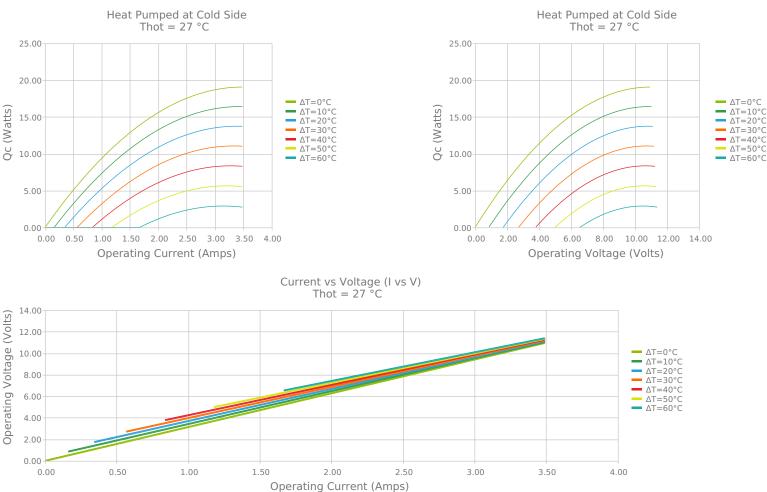


CERAMIC MATERIAL: Al2O3 SOLDER CONSTRUCTION: 138°C, BISn

INCHES [MM]

ELECTRICAL AND THERMAL PERFORMANCE

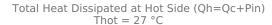
For maximum performance, be sure to orient the CONTROL side of the TEC against the application to be managed and the HEATSINK side against the heat sink or other heat rejection method. The CONTROL side is always opposite the side with lead attachments. Lead attachment is a passive heat loss and less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

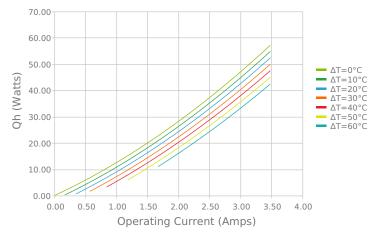


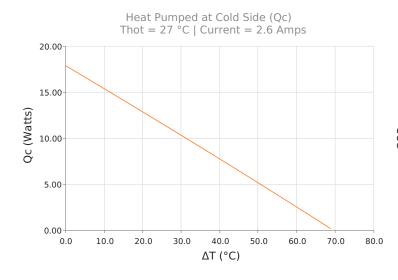
Coefficient of Performance (COP = Qc/Pin) Thot = 27 °C 6.00 5.00 ΔT=0°C ΔT=10°C 4.00 _ ΔT=20°C ΔT=30°C COP 3.00 ΔT=40°C ΔT=50°C ΔT=60°C 2.00 1.00 0.00 0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 **Operating Current (Amps)**

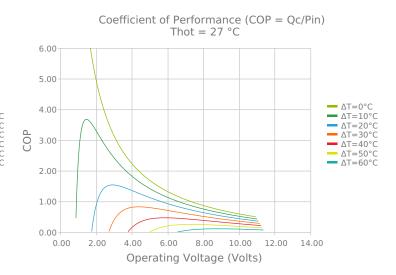
THERMAL

Laird





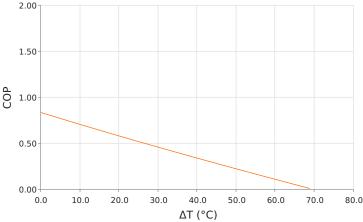




Total Heat Dissipated at Hot Side (Qh=Qc+Pin) Thot = 27 $^{\circ}C$



Coefficient of Performance (COP = Qc/Pin) Thot = 27 °C | Current = 2.6 Amps



SPECIFICATIONS*

Hot Side Temperature	27.0 °C	35.0 °C	50.0 °C
$Qcmax (\Delta T = 0)$	19.1 Watts	19.6 Watts	20.7 Watts
ΔTmax (Qc = 0)	70.5°C	73.5°C	78.8°C
lmax (I @ ΔTmax)	3.1 Amps	3.1 Amps	3.0 Amps
Vmax (V @ ΔTmax)	10.4 Volts	10.8 Volts	11.5 Volts
Module Resistance	3.14 Ohms	3.27 Ohms	3.51 Ohms
Max Operating Temperature	80 °C		
Weight	9.0 gram(s)		

* Specifications reflect thermoelectric coefficients updated March 2020

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
L	3.581 ±0.254 mm 0.141 ± 0.0100 in	0.004 mm / 0.004 mm 0.00015 in / 0.00015 in	Lapped	Lapped	114.3 mm 4.50 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

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

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Revision: 00 Date: 06-01-2022

Print Date: 06-13-2022