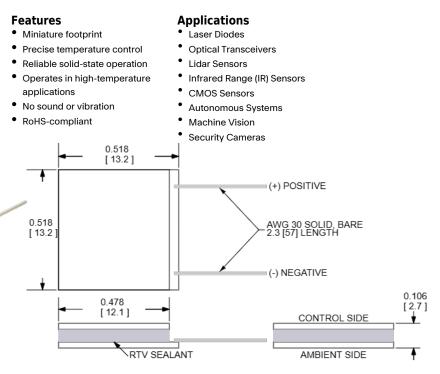


OptoTEC[™] HTX Series HTX12-65-F2A-1312-TB-RT-W2.25 MFG Part Number: 387007112

OptoTECTM HTX Series Thermoelectric Cooler The HTX12-65-F2A-1312-TB-RT-W2.25 is a high-performance, hightemperature, miniature thermoelectric cooler. The HTX12-65-F2A-1312-TB-RT-W2.25 is primarily used in applications to stabilize the temperature of sensitive optical components in the telecom and photonics industries. It has a maximum Qc of 5.8 Watts when $\Delta T = 0$ and a maximum ΔT of 81.6 °C at Qc = 0.

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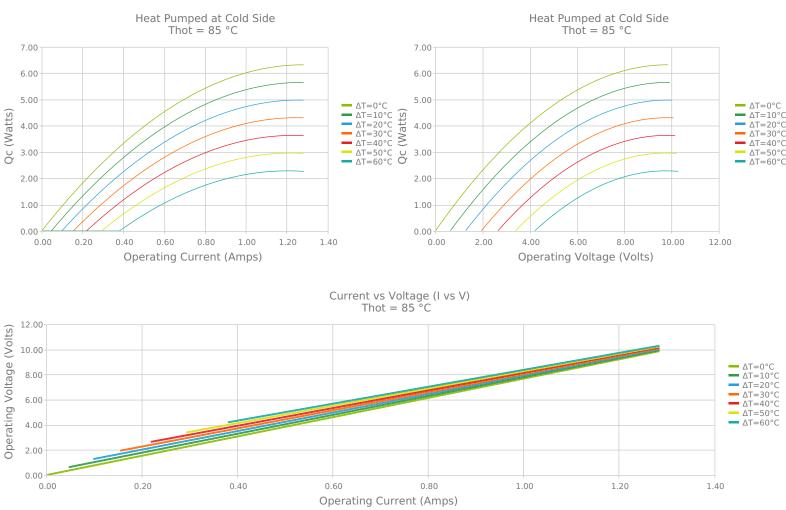
CERAMIC MATERIAL: Al₂O₃ SOLDER CONSTRUCTION: 280°C, AuSn

INCHES [MM]

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

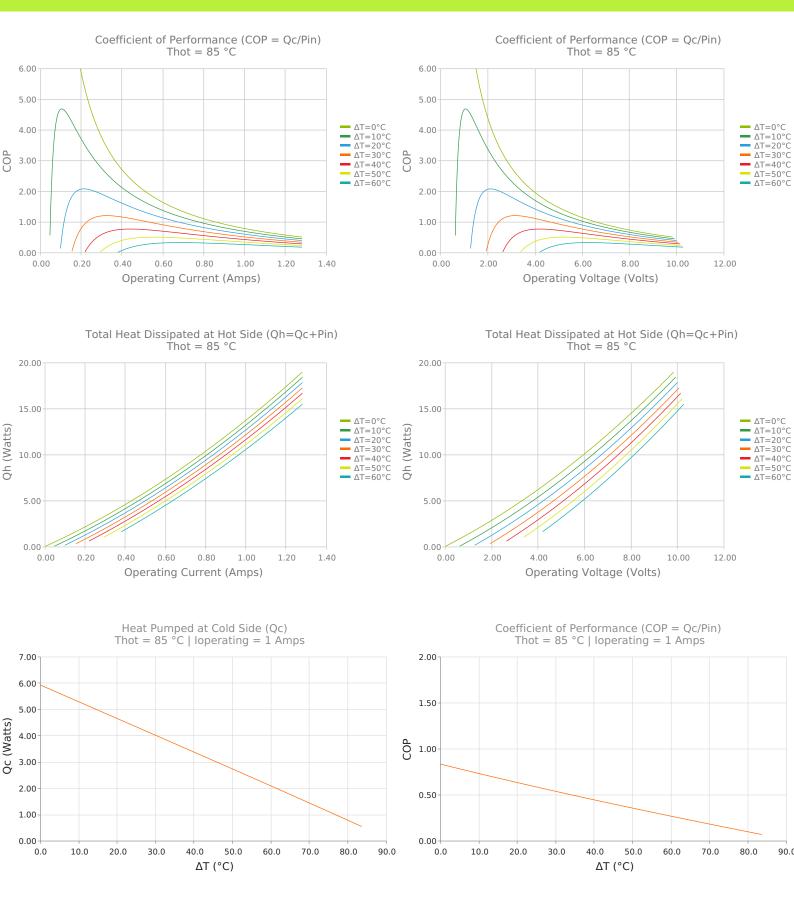
Electrical and Thermal Performance

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.



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OptoTEC[™] HTX Series HTX12-65-F2A-1312-TB-RT-W2.25 MFG Part Number: 387007112





Specifications

Hot Side Temperature	50.0 °C	85.0 °C	110.0 °C
Qcmax ($\Delta T = 0$)	5.8 Watts	6.3 Watts	6.5 Watts
ΔTmax (Qc = 0)	81.6°C	93.4°C	99.9°C
lmax (I @ ΔTmax)	1.2 Amps	1.1 Amps	1.1 Amps
Vmax (V @ ΔTmax)	8.4 Volts	9.6 Volts	10.5 Volts
Module Resistance	6.58 Ohms	7.68 Ohms	8.40 Ohms
Max Operating Temperature	150 °C		
Weight	2.0 gram(s)		

Finishing Options

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
ТВ	2.692 ±0.013 mm 0.106 ± 0.0005 in	0.013 mm / 0.013 mm 0.0005 in / 0.0005 in	Lapped	Lapped	50.8 mm 2.00 in

Sealing Options

Suffix	Sealant	Color	Temp Range	Description
RT	RTV	Translucent or White	-60 to 204°C	Non-corrosive, silicone adhesive

Notes

Max operating temperature: 150°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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