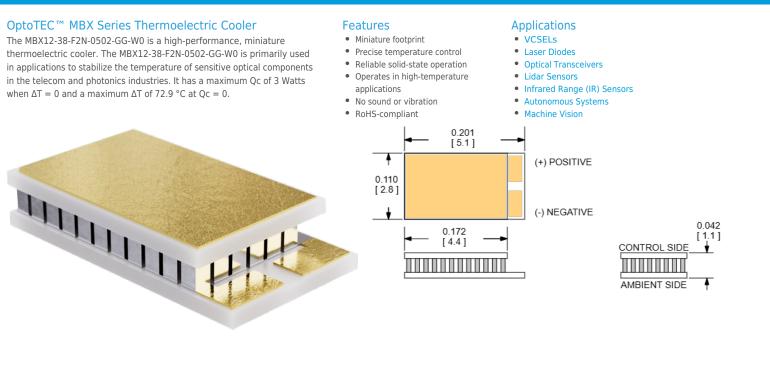
Laird SYSTEMS

OptoTEC[™] MBX Series MBX12-38-F2N-0502-GG-W0 MFG Part Number: 387010765

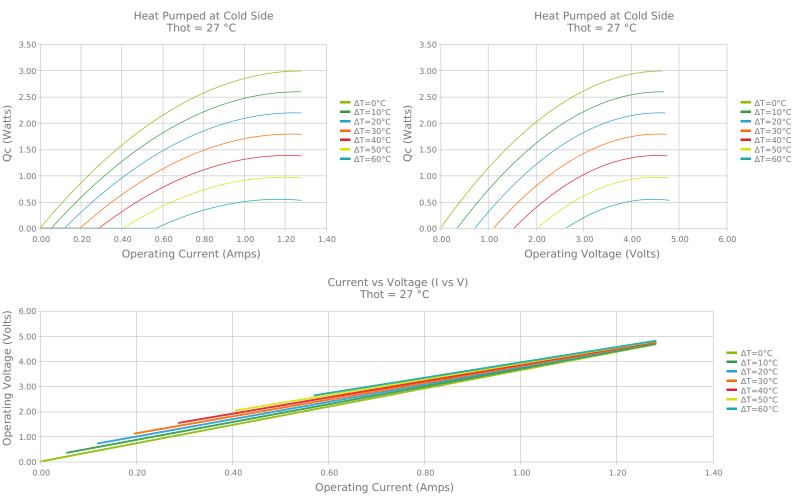


CERAMIC MATERIAL: AIN SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [MM]

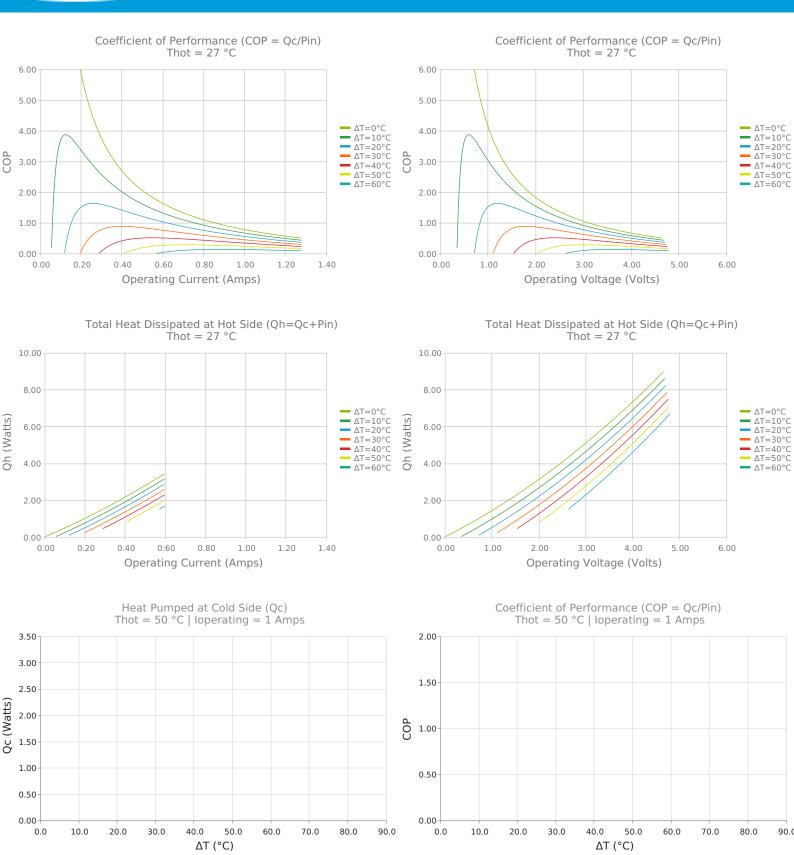
ELECTRICAL AND THERMAL PERFORMANCE

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.





OptoTEC[™] MBX Series MBX12-38-F2N-0502-GG-W0 MFG Part Number: 387010765



SPECIFICATIONS

Hot Side Temperature	27.0 °C	50.0 °C	80.0 °C
Qcmax (ΔT = 0)	3.0 Watts	3.2 Watts	3.4 Watts
ΔTmax (Qc = 0)	72.9°C	81.8°C	92.1°C
lmax (I @ ΔTmax)	1.1 Amps	1.1 Amps	1.1 Amps
Vmax (V @ ΔTmax)	4.4 Volts	4.9 Volts	5.5 Volts
Module Resistance	3.64 Ohms	4.10 Ohms	4.69 Ohms
Max Operating Temperature	120 °C		
Weight	0.5 gram(s)		

FINISHING OPTIONS

Suffix	Thickness	Flatness / Parallelism	Hot Face	Cold Face	Lead Length
GG	1.070 ±0.100 mm 0.042 ± 0.0039 in	N/A / N/A	Au Plated	Au Plated	0.0 mm 0.00 in

SEALING OPTIONS

Suffix	Sealant	Color	Temp Range	Description
	None			No sealing specified

NOTES

- 1. Max operating temperature: 120°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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