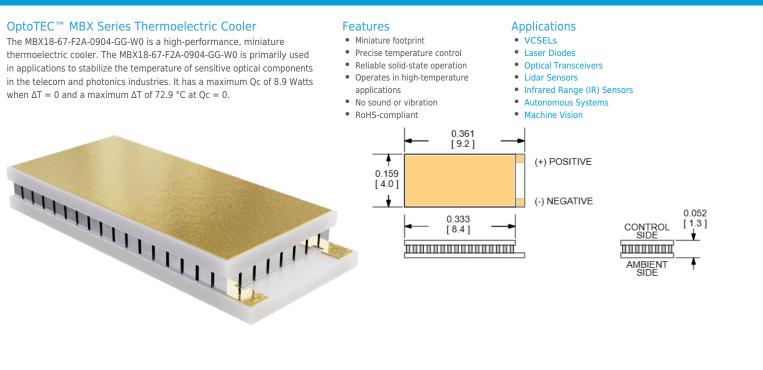
# Laird SYSTEMS

## OptoTEC<sup>™</sup> MBX Series MBX18-67-F2A-0904-GG-W0 MFG Part Number: 387013092

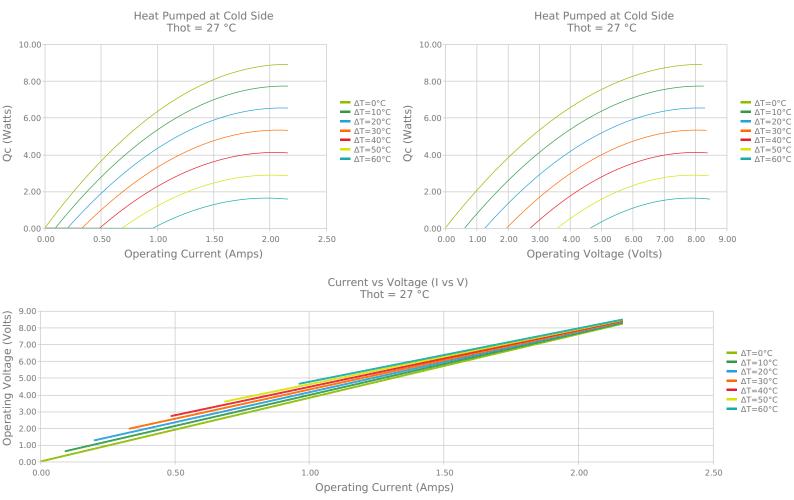


CERAMIC MATERIAL: Al<sub>2</sub>O<sub>3</sub> SOLDER CONSTRUCTION: 232°C, SbSn

INCHES [ MM ]

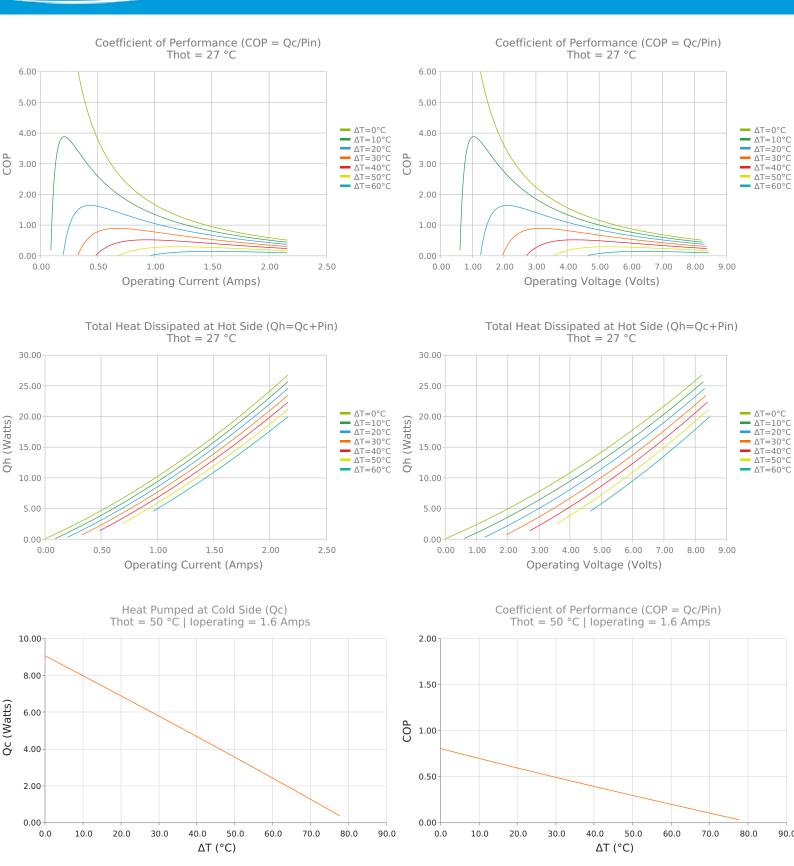
#### **ELECTRICAL AND THERMAL PERFORMANCE**

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.



# Laird Systems

## OptoTEC<sup>™</sup> MBX Series MBX18-67-F2A-0904-GG-W0 MFG Part Number: 387013092



### **SPECIFICATIONS**

| Hot Side Temperature      | 27.0 °C     | <b>50.0</b> °C | 80.0 °C    |
|---------------------------|-------------|----------------|------------|
| Qcmax (ΔT = 0)            | 8.9 Watts   | 9.6 Watts      | 10.3 Watts |
| ΔTmax (Qc = 0)            | 72.9°C      | 81.8°C         | 92.1°C     |
| lmax (I @ ΔTmax)          | 1.9 Amps    | 1.9 Amps       | 1.8 Amps   |
| Vmax (V @ ΔTmax)          | 7.8 Volts   | 8.6 Volts      | 9.8 Volts  |
| Module Resistance         | 3.80 Ohms   | 4.28 Ohms      | 4.90 Ohms  |
| Max Operating Temperature | 120 °C      |                |            |
| Weight                    | 0.5 gram(s) |                |            |

### **FINISHING OPTIONS**

| Suffix | Thickness                            | Flatness / Parallelism | Hot Face  | Cold Face | Lead Length       |
|--------|--------------------------------------|------------------------|-----------|-----------|-------------------|
| GG     | 1.330 ±0.100 mm<br>0.052 ± 0.0039 in | N/A / N/A              | Au Plated | Au Plated | 0.0 mm<br>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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