

# QBM-18000-50000

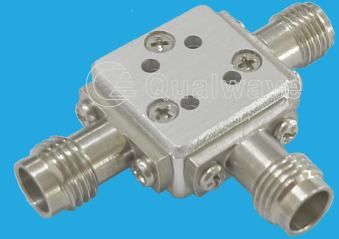
## 18~50GHz

**Features:**

- \* Low Conversion Loss
- \* High Isolation

**Applications:**

- \* Wireless
- \* Transceiver
- \* Laboratory Test
- \* Broadcast



**Electrical**

|                     |             |
|---------------------|-------------|
| RF Frequency:       | 18~50GHz    |
| LO Frequency:       | 18~50GHz    |
| LO Input Power:     | +15dBm typ. |
| IF Frequency:       | DC~22GHz    |
| Conversion Loss:    | 8dB typ.    |
| Isolation (LO, RF): | 30dB typ.   |
| Isolation (LO, IF): | 30dB typ.   |
| Isolation (RF, IF): | 30dB typ.   |
| VSWR:               | 2.8 typ.    |

**Absolute Maximum Ratings\*1**

Input Power: +22dBm

[1] Permanent damage may occur if any of these limits are exceeded.

**Mechanical**

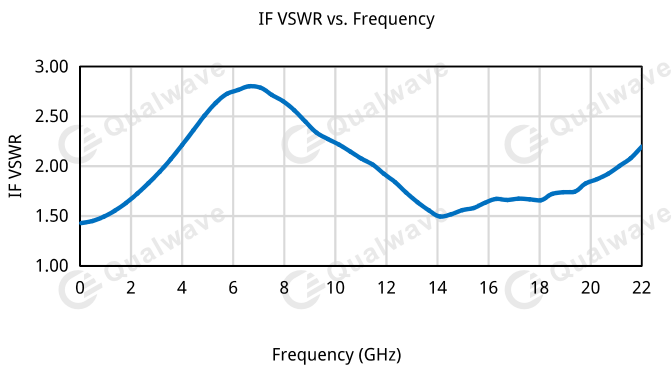
|                   |                                  |
|-------------------|----------------------------------|
| Size*2:           | 14*14*8mm<br>0.551*0.551*0.315in |
| IF Connectors:    | SMA Female                       |
| RF/LO Connectors: | 2.4mm Female                     |
| Mounting:         | 4*Φ1.8mm through-hole            |

[2] Exclude connectors.

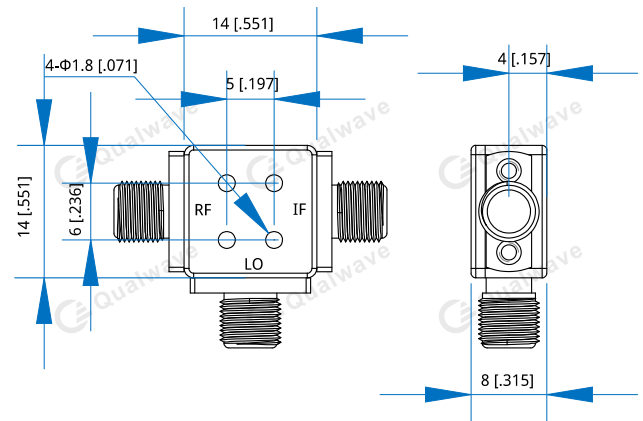
**Environmental**

|                            |            |
|----------------------------|------------|
| Operating Temperature:     | -55~+85°C  |
| Non-operating Temperature: | -65~+150°C |

**Typical Performance Curves**



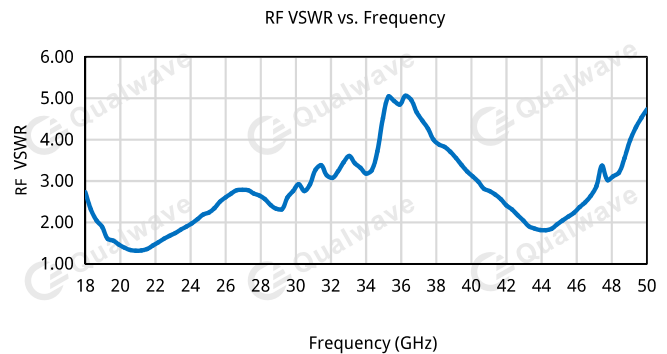
**Outline Drawings**



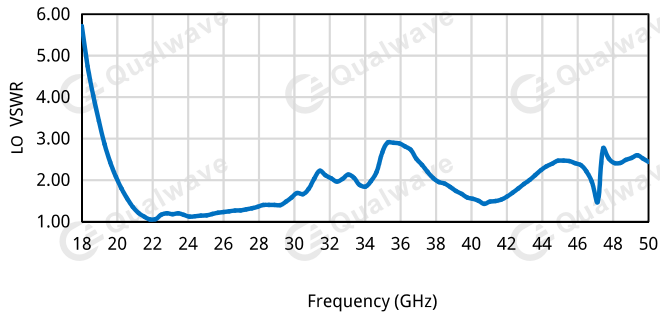
Unit: mm [in]  
Tolerance: ±0.2mm [±0.008in]

**How To Order**  
**QBM-18000-50000**

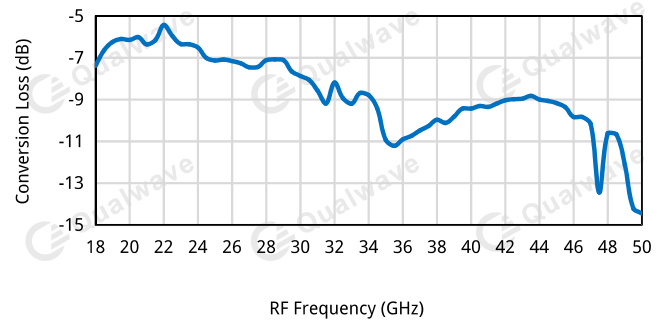
Customization is available upon request.



LO VSWR vs. Frequency



Downconversion Loss vs. Frequency



Isolation vs. Frequency

