



Oscilent Corporation

PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

| Ordering Code / Part Number | Product Description |
|-----------------------------|---------------------|
| 803-RF448.0M-D | Wireless, RF Filter |

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Performance

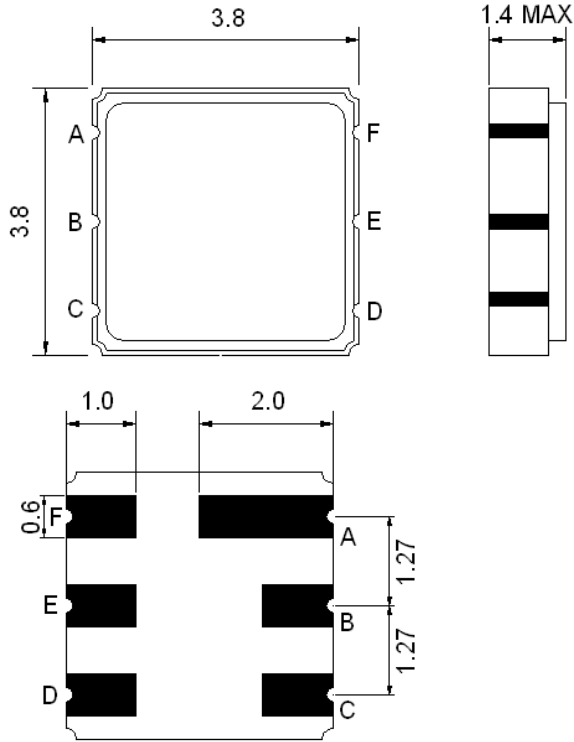
Notes

- o Electrostatic Sensitive Device (ESD) 
- o Avoid excessive ultrasonic exposure
- o Solderability compatible with JEDEC J-STD-020C Pb-free process, 260°C peak reflow temperature
- o This product complies with EU directive 2002/95/EC (RoHS compliance)



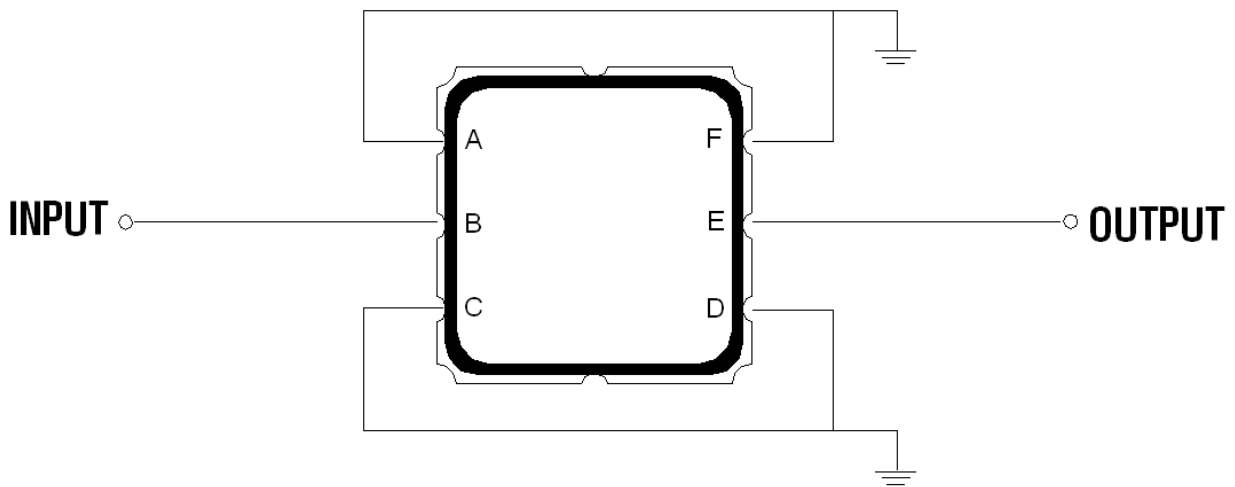


Mechanical Dimensions (mm)



| Pin Description | |
|-----------------|--------|
| A, C, D, F | Ground |
| B | In |
| E | Out |

Test Circuit



Source and Load Impedance: 50 Ω



Maximum Ratings

| Parameters Description | Unit | Minimum | Typical | Maximum |
|--|------|---------|---------|---------|
| Operating Temperature Range | °C | -10 | - | +60 |
| Storage Temperature Range | °C | -40 | - | +85 |
| Maximum DC Voltage | V | - | - | 0 |
| Maximum Input Power | dBm | - | - | 0 |
| Source Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |
| Load Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |

Notes: No Matching Network

Electrical Specification

| Parameters Description | Unit | Minimum | Typical | Maximum |
|---------------------------------------|-------------------|---------|---------|---------|
| Center Frequency (Fo) | MHz | - | 448.0 | - |
| Insertion Loss within 440 ~ 456 MHz | dB | - | 2.8 | 4.0 |
| Amplitude Ripple within 440 ~ 456 MHz | dB _{p-p} | - | 0.7 | 1.5 |
| Attenuation: | | | | |
| Fo-200 ~ Fo-42.8 MHz | dB | 45 | 50 | - |
| Fo+42.8 ~ Fo+200 MHz | dB | 50 | 55 | - |
| Terminating Impedance | Ω/pF | | 50/0 | |



Frequency Performance

