



# PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

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

## Specification Contents

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- o Test Circuit
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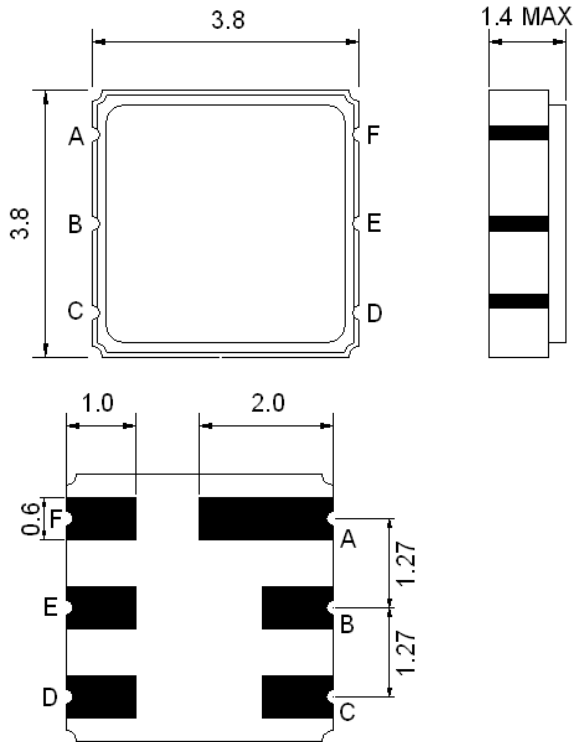
## Notes

- 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)



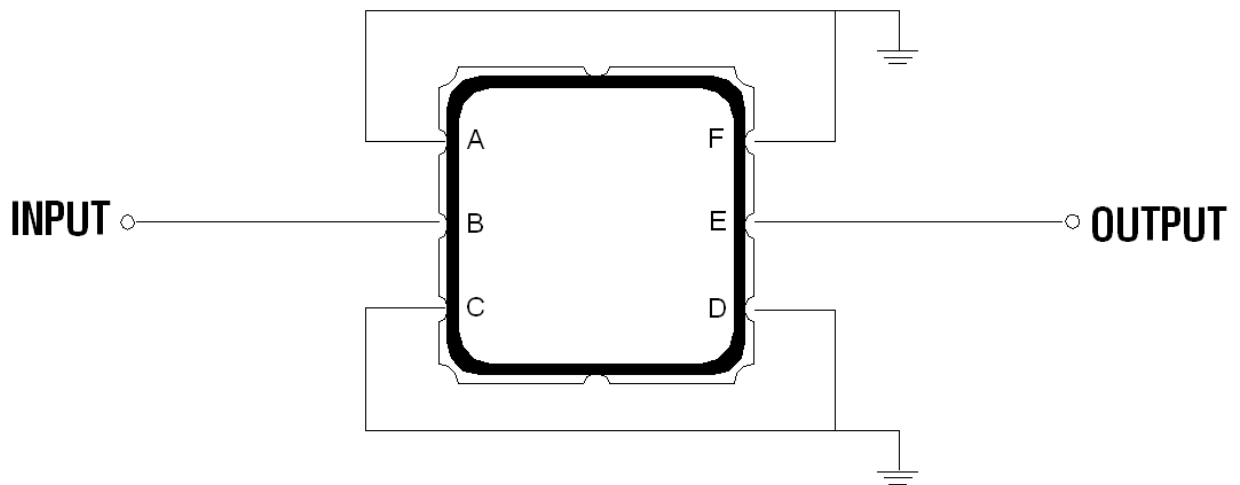


### Mechanical Dimensions (mm)



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

### Test Circuit



Source and Load Impedance: 50  $\Omega$



### 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) <sup>(1)</sup> | Ω    | -       | 50      | -       |
| Load Impedance (single ended) <sup>(1)</sup>   | Ω    | -       | 50      | -       |

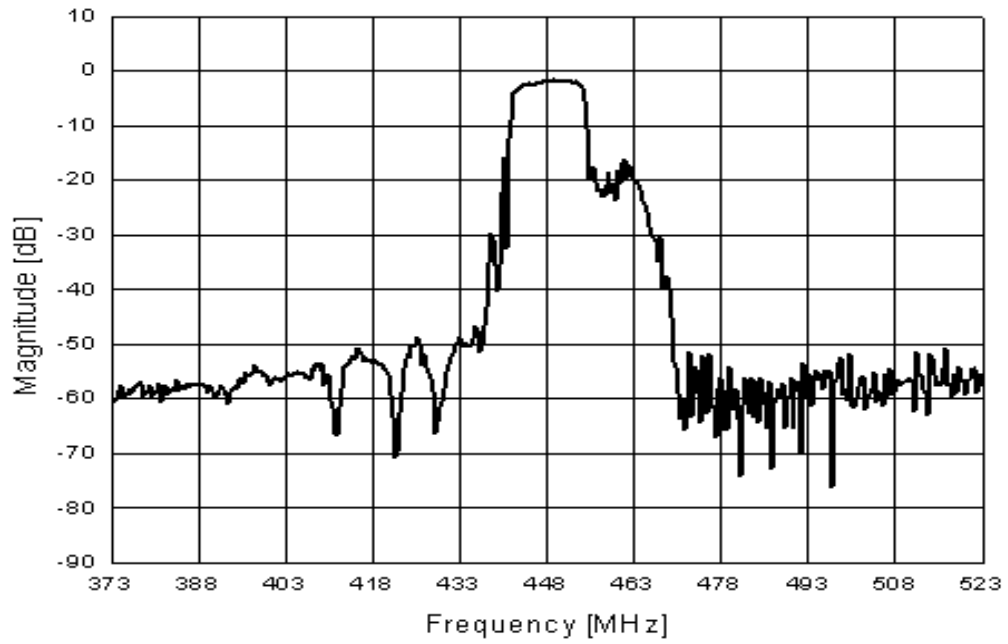
Notes: No Matching Network

### Electrical Specification

| Parameters Description                | Unit              | Minimum | Typical | Maximum |
|---------------------------------------|-------------------|---------|---------|---------|
| Center Frequency (Fo)                 | MHz               | -       | 448.0   | -       |
| Insertion Loss within 446 ~ 450 MHz   | dB                | -       | 2.5     | 3.5     |
| Amplitude Ripple within 446 ~ 450 MHz | dB <sub>p-p</sub> | -       | 0.6     | 1.5     |
| Attenuation:                          |                   |         |         |         |
| Fo-200 ~ Fo-42.8 MHz                  | dB                | 50      | 55      | -       |
| Fo+42.8 ~ Fo+200 MHz                  | dB                | 50      | 55      | -       |
| Terminating Impedance                 | Ω/pF              |         | 50/0    |         |



## Frequency Performance





Oscilent Part Number  
**803-RF448.0M-B**

January 2010 Rev A

Wireless, RF SAW Filter

## VSWR

## Smith Chart