



PRODUCT SPECIFICATION

REV A January 2010


Oscilent Controlled Document

| Ordering Code / Part Number | Product Description |
|-----------------------------|-------------------------|
| 802-RF915.0M-D | Wireless, RF SAW Filter |

Specification Contents

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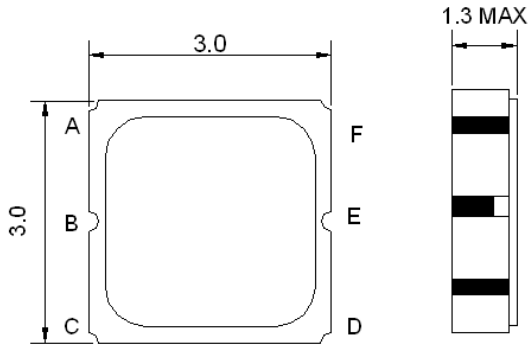
Notes

- 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)

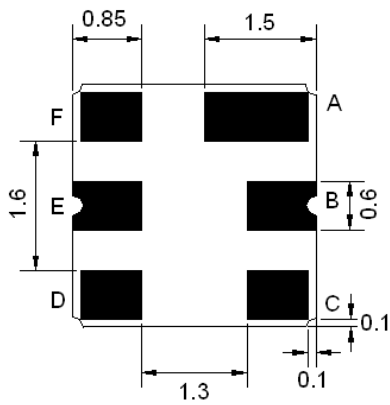




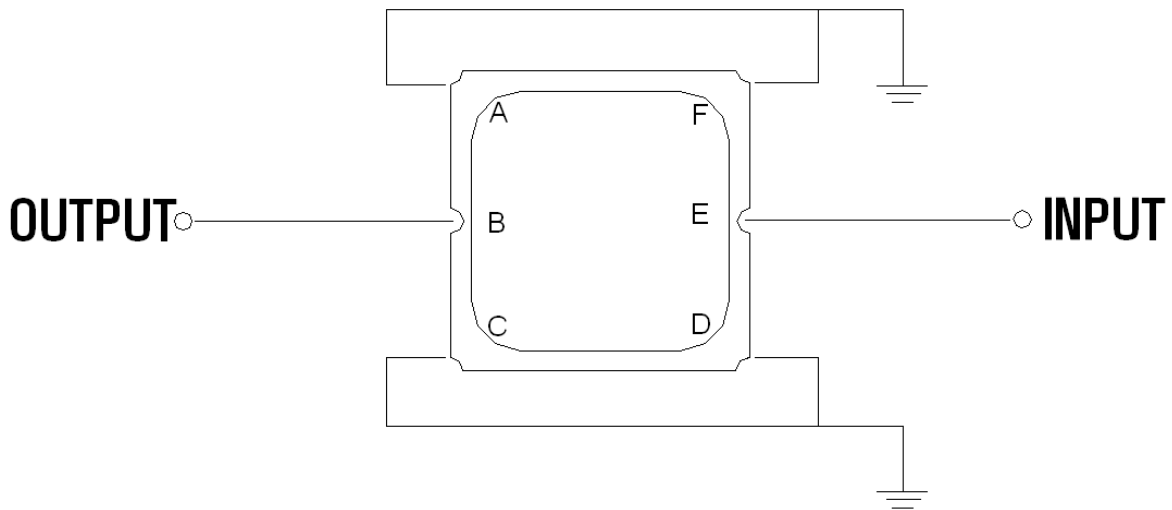
Mechanical Dimensions (mm)



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



Test Circuit



Source and Load Impedance: 50 Ω



Maximum Ratings

| Parameters Description | Unit | Minimum | Typical | Maximum |
|--|------|---------|---------|---------|
| Operating Temperature Range | °C | -30 | - | +85 |
| Storage Temperature Range | °C | -40 | - | +85 |
| Maximum DC Voltage | V | - | - | 5 |
| Maximum Input Power | dBm | - | - | 20 |
| Source Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |
| Load Impedance (single ended) ⁽¹⁾ | Ω | - | 50 | - |

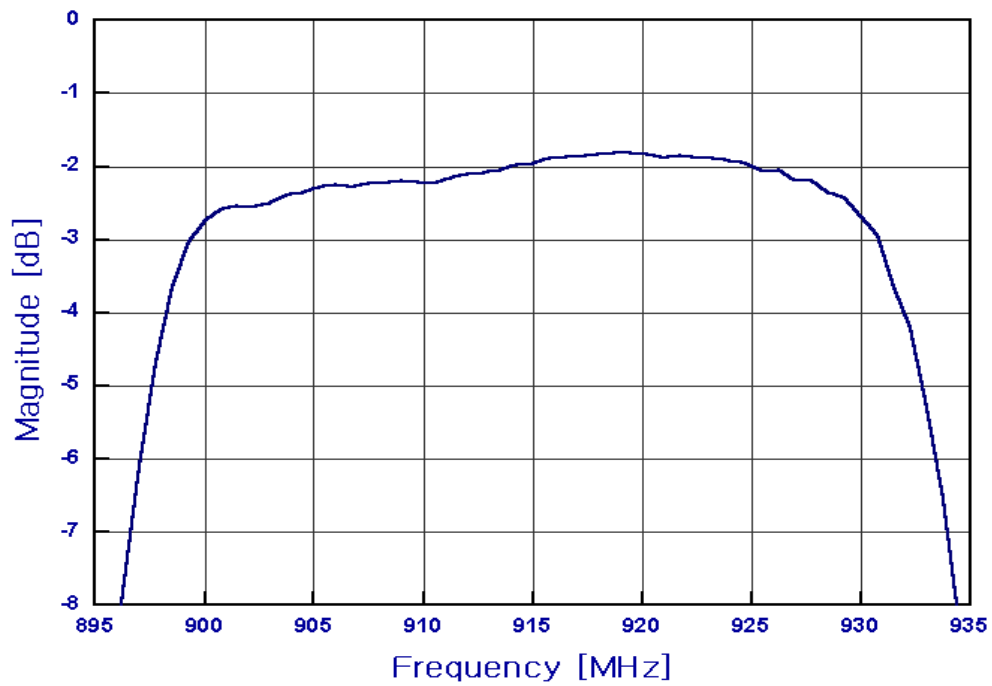
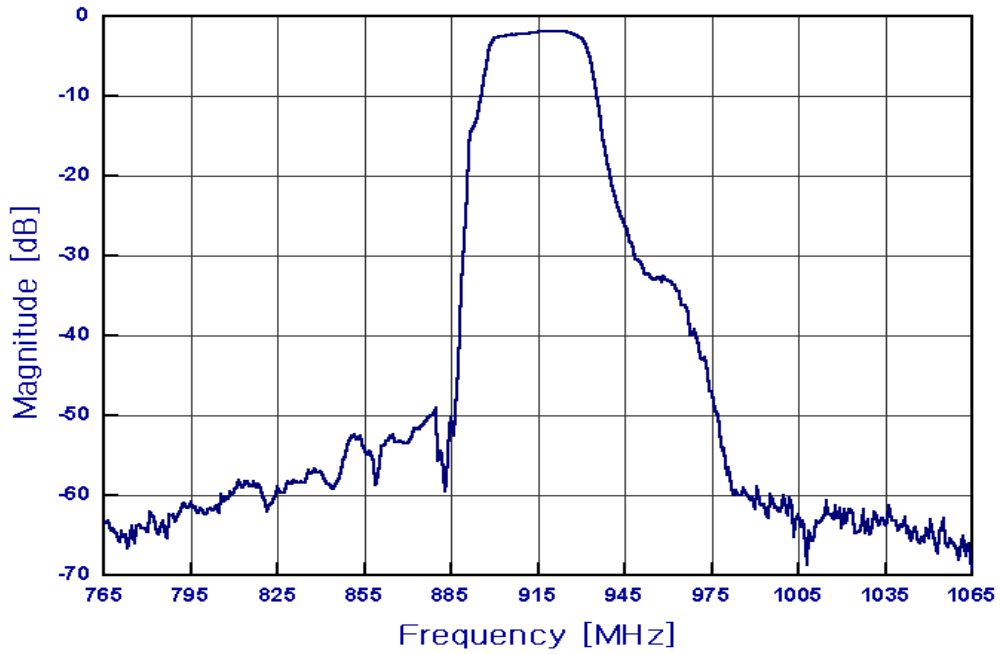
Notes: No Matching Network

Electrical Specification

| Parameters Description | Unit | Minimum | Typical | Maximum |
|---------------------------------------|-------------------|---------|---------|---------|
| Center Frequency (Fo) | MHz | - | 915.0 | - |
| Insertion Loss 902 ~ 927 MHz | dB | - | 2.5 | 3.0 |
| Amplitude Ripple within 902 ~ 927 MHz | dB _{p-p} | - | 0.7 | 1.5 |
| Attenuation: | | | | |
| D.C. ~ 800 MHz | dB | 50 | 60 | - |
| 800 ~ 845 MHz | dB | 50 | 55 | - |
| 845 ~ 880 MHz | dB | 45 | 50 | - |
| 950 ~ 990 MHz | dB | 26 | 31 | - |
| 990 ~ 1200 MHz | dB | 50 | 58 | - |
| 1200 ~ 2000 MHz | dB | 30 | 38 | - |
| VSWR (902 ~ 927 MHz) | - | - | 1.45 | 2.0 |

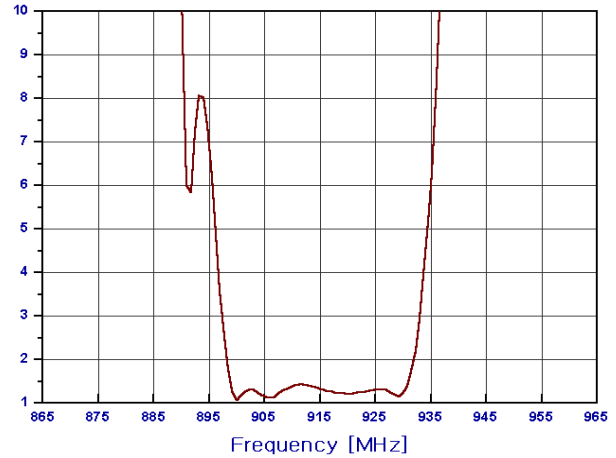
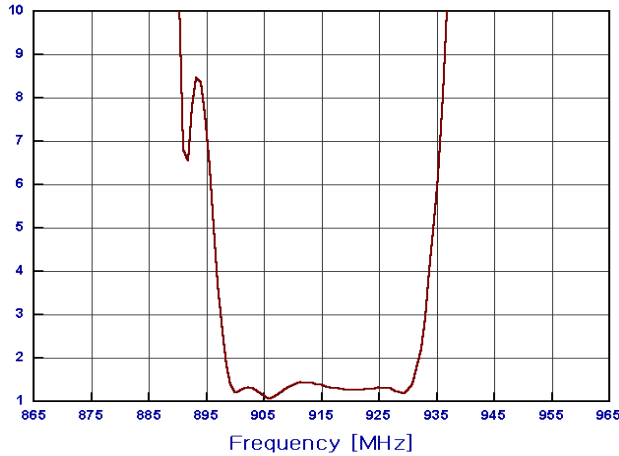


Frequency Performance

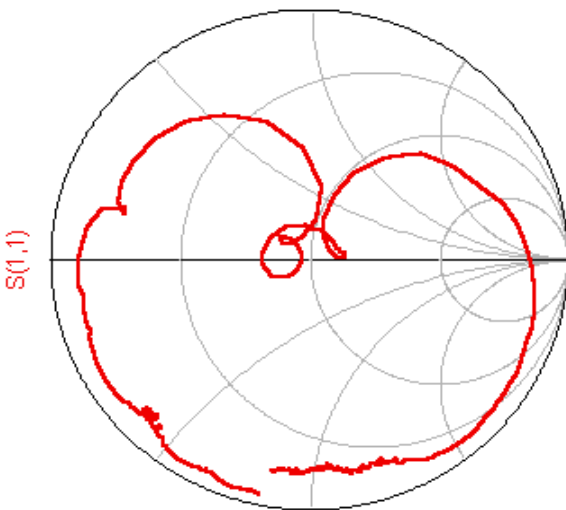




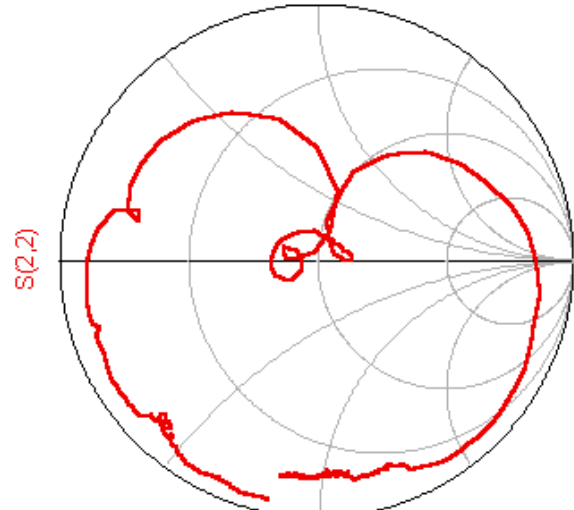
VSWR



Smith Chart



freq (765.0MHz to 1.065GHz)



freq (765.0MHz to 1.065GHz)