



# PRODUCT SPECIFICATION

REV A January 2010


Oscilent Controlled Document

| Ordering Code / Part Number | Product Description    |
|-----------------------------|------------------------|
| 802-RF897.5M-A              | EGSM, RF-Tx SAW Filter |

## Specification Contents

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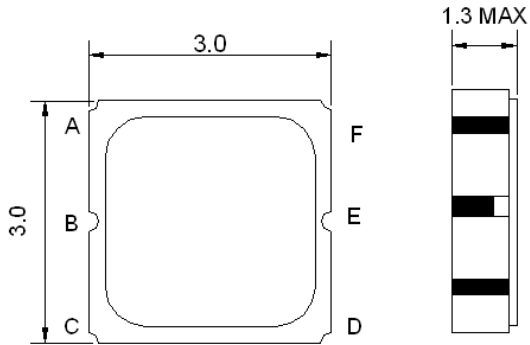
## Notes

- 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)

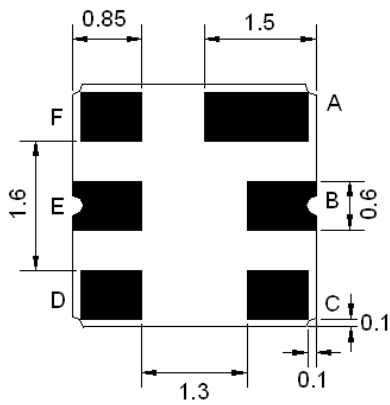




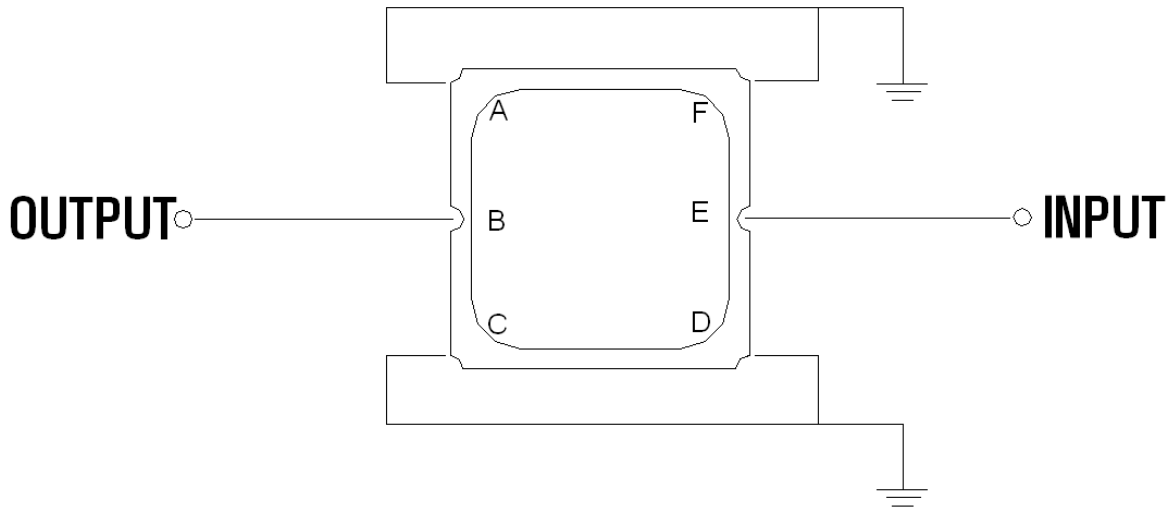
**Mechanical Dimensions (mm)**



| 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     | -       | +80     |
| Storage Temperature Range                      | °C           | -40     | -       | +85     |
| Maximum DC Voltage                             | V            | -       | -       | 3       |
| Maximum Input Power                            | dBm          | -       | -       | 15      |
| Source Impedance (single ended) <sup>(1)</sup> | $\Omega//pF$ | -       | 50      | -       |
| Load Impedance (single ended) <sup>(1)</sup>   | $\Omega//pF$ | -       | 50      | -       |

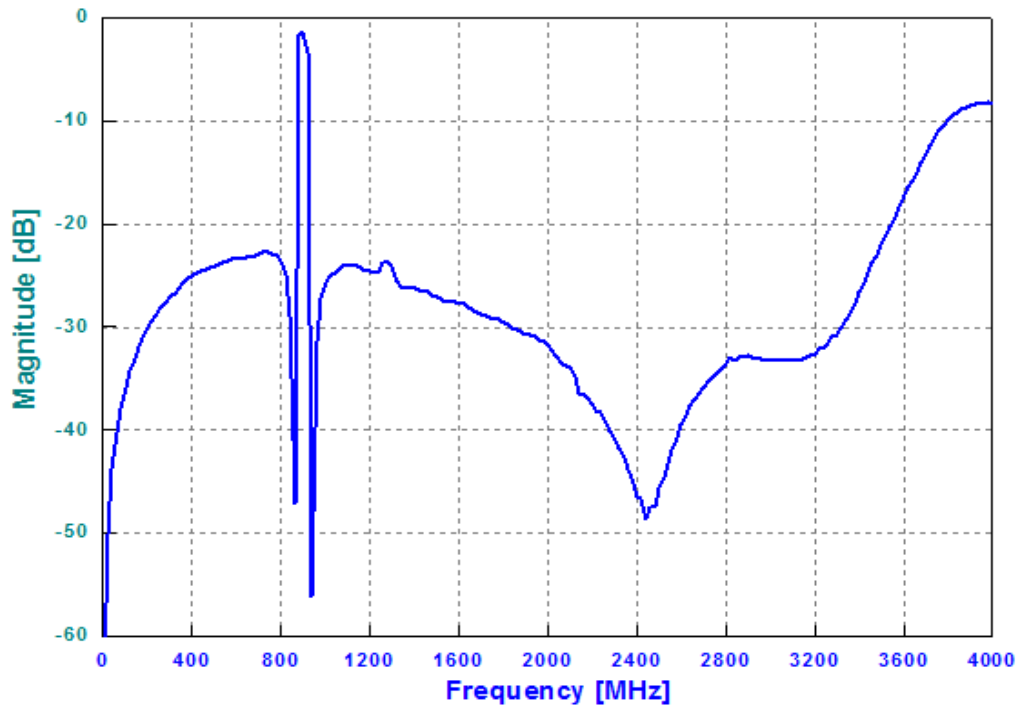
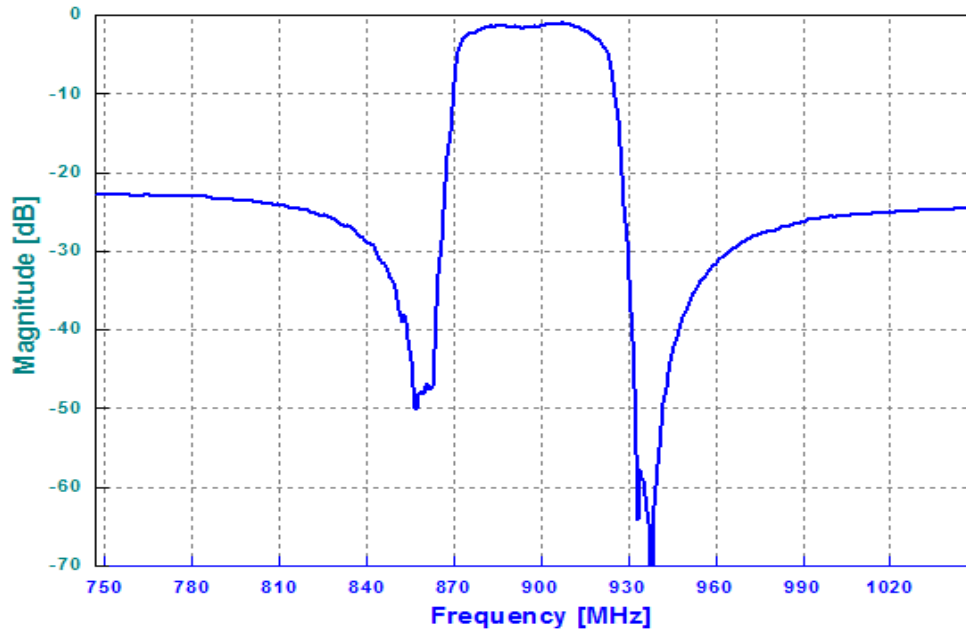
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

## Electrical Specification

| Parameters Description                    | Unit              | Minimum | Typical | Maximum |
|---|-------------------|---------|---------|---------|
| Center Frequency (Fo)                     | MHz               | -       | 897.5   | -       |
| Insertion Loss within 880.0 ~ 915.0 MHz   | dB                | -       | 2.5     | 3.5     |
| Amplitude Ripple within 880.0 ~ 915.0 MHz | dB <sub>p-p</sub> | -       | 1.2     | 2.0     |
| Attenuation:                              |                   |         |         |         |
| D.C. ~ 840.0 MHz                          | dB                | 17      | 23      | -       |
| 840.0 ~ 860.0 MHz                         | dB                | 17      | 29      | -       |
| 860.0 ~ 865.0 MHz                         | dB                | 10      | 45      | -       |
| 925.0 ~ 935.0 MHz                         | dB                | 4.5     | 15      | -       |
| 935.0 ~ 1850.0 MHz                        | dB                | 20      | 24      | -       |
| 1850.0 ~ 3660.0 MHz                       | dB                | 10      | 15      | -       |
| VSWR within 880.0 ~ 915.0 MHz             | -                 | -       | 2.0     | 2.5     |

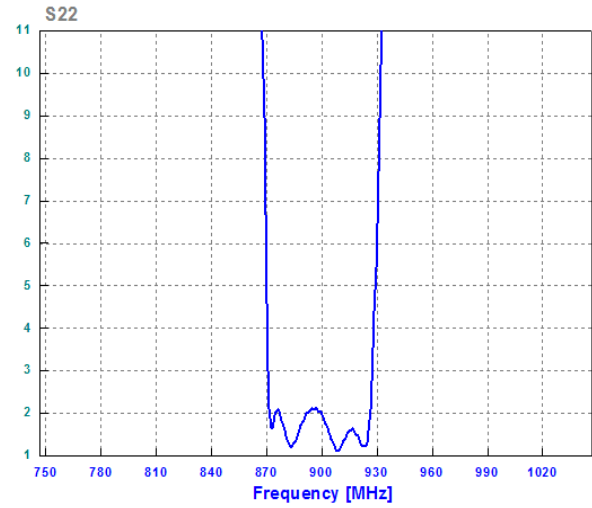
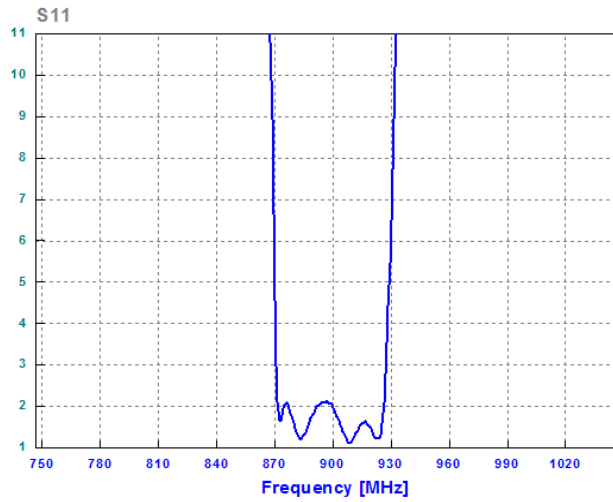


## Frequency Performance





### VSWR



### Smith Chart

