# PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

| Ordering Code / Part Number | Product Description |
|---|---|
| 808-RF897.5M-B | EGSM, RF-Tx SAW Filter |

## Specification Contents

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

## Notes

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

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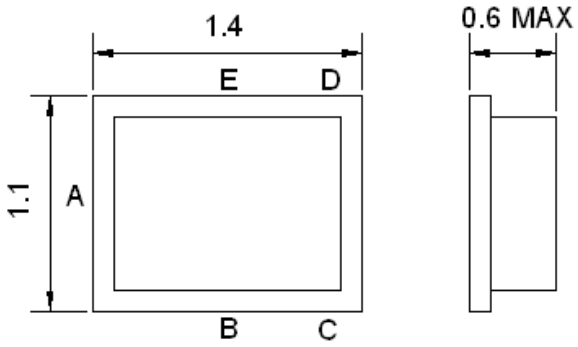
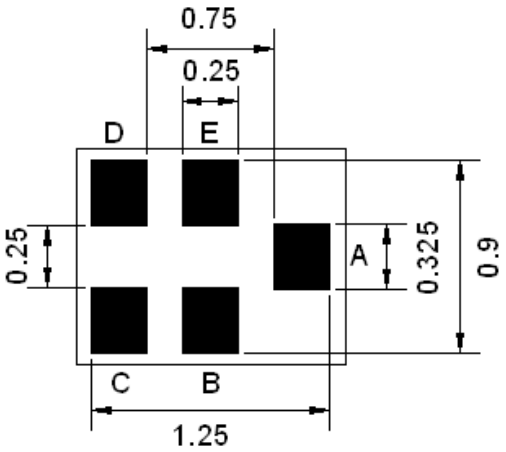
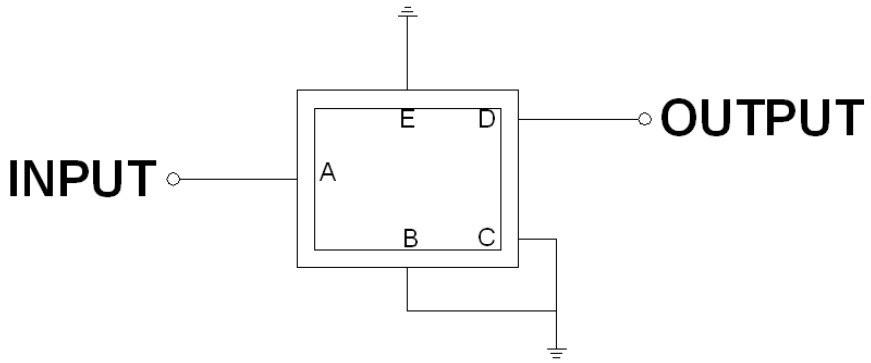
## Mechanical Dimensions (mm)




| Pin Description | |
|---|---|
| B, C, E | Ground |
| A | In |
| D | 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 | - | - | 15 |
| Source Impedance (single ended)(1) | Ω | - | 50 | - |
| Load Impedance (single ended)(1) | Ω | - | 50 | - |

Notes: (1) 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 880.0~915.0MHz | dB | - | 2.0 | 2.5 |
| Amplitude Ripple within 880.0~915.0MHz | $dB_{p-p}$ | - | 0.8 | 1.5 |
| Attenuation: | | | | |
| D.C ~ 800.0 MHz | dB | 40 | 44 | - |
| 800.0 ~ 860.0 MHz | dB | 30 | 43 | - |
| 925.0 ~ 928.0 MHz | dB | 4 | 11 | - |
| 928.0 ~ 932.0 MHz | dB | 12 | 18 | - |
| 932.0 ~ 935.0 MHz | dB | 19 | 23 | - |
| 935.0 ~ 947.0 MHz | dB | 22 | 27 | - |
| 947.0 ~ 960.0 MHz | dB | 30 | 33 | - |
| 960.0 ~ 1850.0 MHz | dB | 32 | 35 | - |
| 1850.0 ~ 3660.0 MHz | dB | 25 | 30 | - |
| 3660.0 ~ 6000.0 MHz | dB | 20 | 27 | - |
| VSWR within 880.0~915.0MHz | - | - | 1.9 | 2.2 |

## Frequency Performance