# SA915HM

**Wireless, RF SAW Filter**
**Revision 0: November 2007**

RoHS compliance
Pb free

- ❒ Electrical Characteristics
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# ❒ Electrical Characteristics

### Maximum Ratings

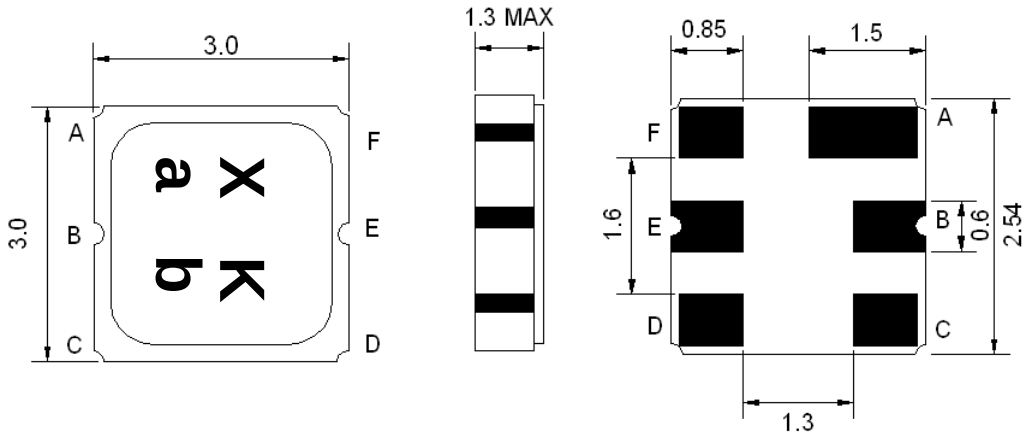
| Parameters Description | Unit | Minimum | Typical | Maximum |
|---|---|---|---|---|
| **Operating Temperature Range** | °C | -40 | - | +80 |
| **Storage Temperature Range** | °C | - | - | - |
| **Maximum DC Voltage** | V | - | - | 5 |
| **Maximum Input Power** | dBm | - | - | 17 |
| **Source Impedance (single ended)(1)** | Ω | - | 50 | - |
| **Load Impedance (single ended)(1)** | Ω | - | 50 | - |
| **Package type & size** | M | | | |
| **Length x Width** | mm² | - | 3.0 x 3.0 | - |
| **Height** | mm | - | - | 1.3 |

### Electrical Specification

| Parameters Description | Unit | Minimum | Typical | Maximum |
|---|---|---|---|---|
| **Center Frequency (Fo)** | MHz | - | 915.0 | - |
| **Insertion Loss within 914.0 ~ 916.0 MHz** | dB | - | 1.9 | 2.5 |
| **Amplitude Ripple within 914.0 ~ 916.0 MHz** | $dB_{p-p}$ | - | 0.2 | 0.7 |
| **Attenuation:** | | | | |
| **20.0 ~ 850.0 MHz** | dB | 45 | 53 | - |
| **850.0 ~ 899.0 MHz** | dB | 35 | 43 | - |
| **899.0 ~ 901.0 MHz** | dB | 35 | 42 | - |
| **929.0 ~ 932.0 MHz** | dB | 40 | 50 | - |
| **950.0 ~ 1500.0 MHz** | dB | 40 | 46 | - |
| **VSWR within 914.0 ~ 916.0 MHz** | - | - | 1.50 | 2.0 |

**Notes :** (1) No Matching Network (Ref. Testing Environment Circuit as shown below).

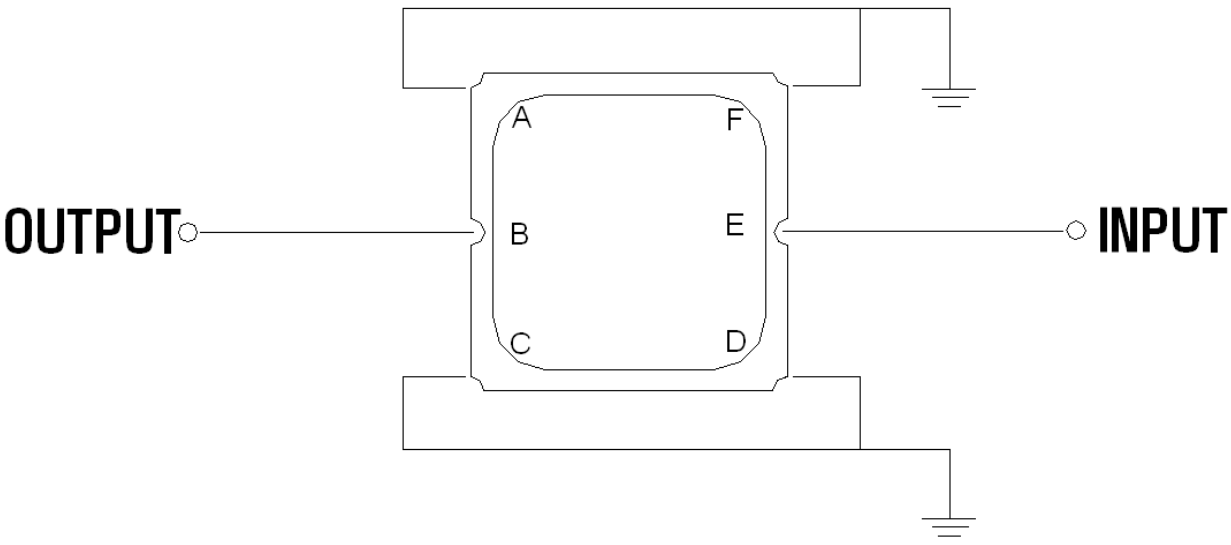
## ❒ Package Dimensions




| Marking Descriptions | |
|---|---|
| X | Wireless Application |
| K | Series Number |
| a | Date Code(Year) |
| b | Date Code(Month) |

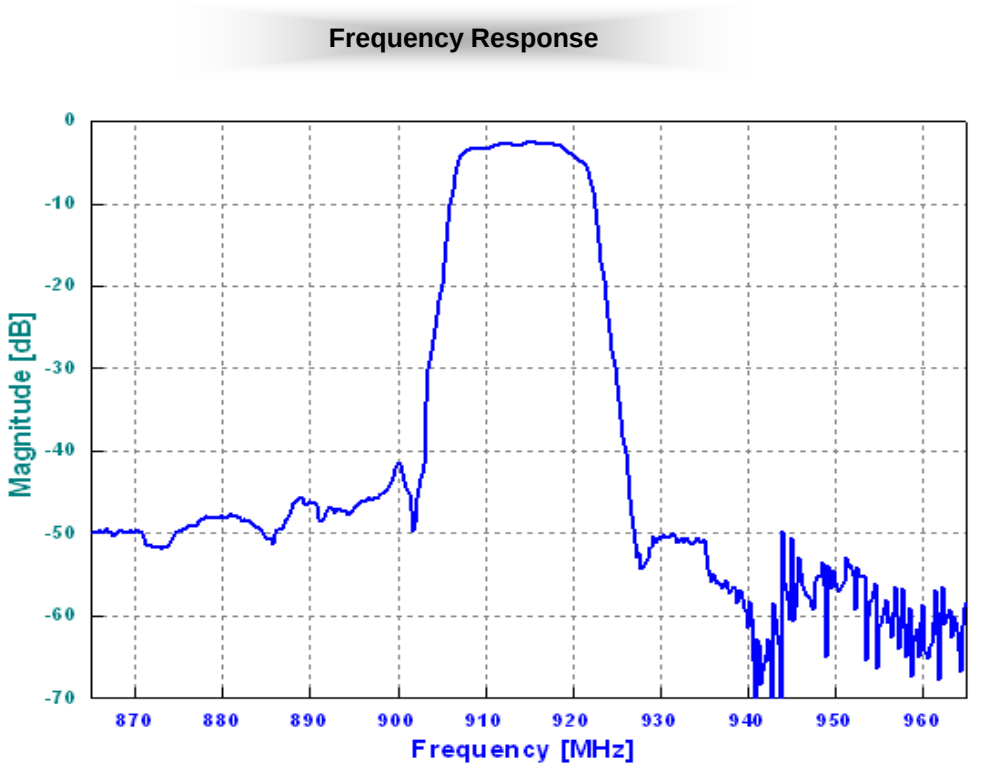
| Pin Description | |
|---|---|
| A, C, D, F | Ground |
| E | In |
| B | Out |

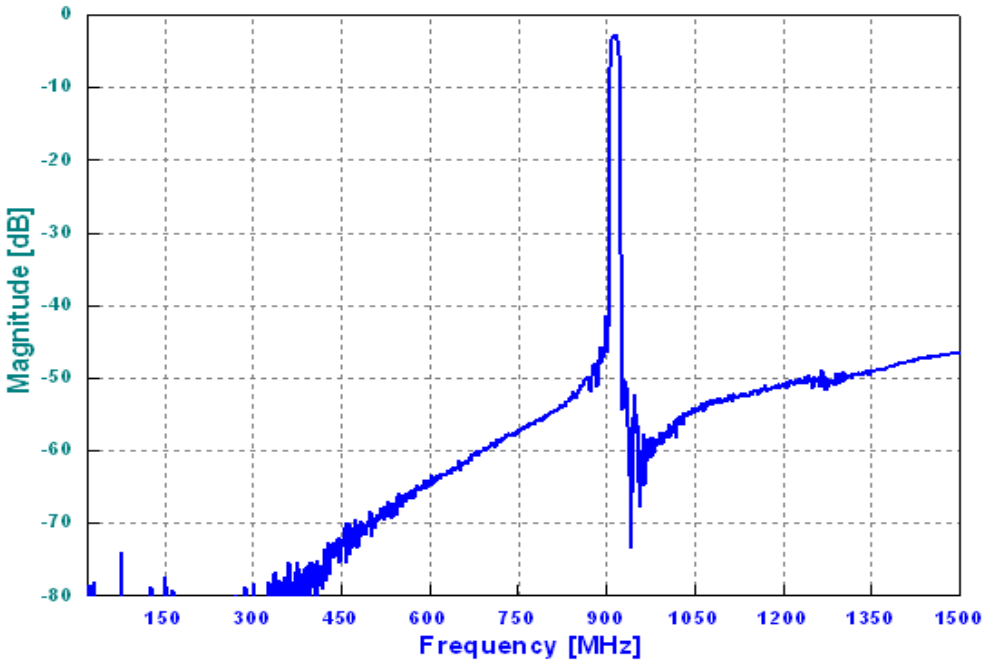
## ❒ Testing Environment



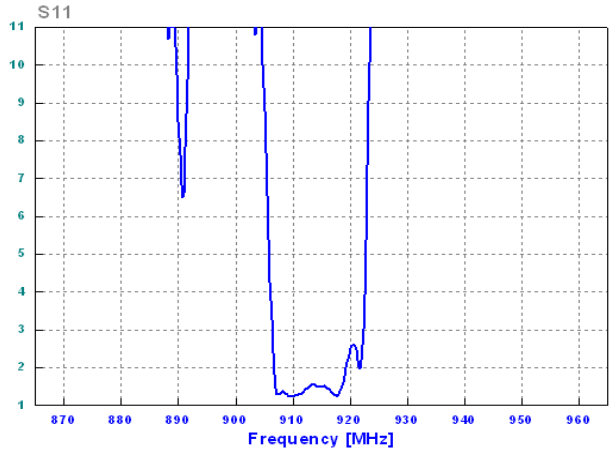

Source & Load Impedance: 50 Ω

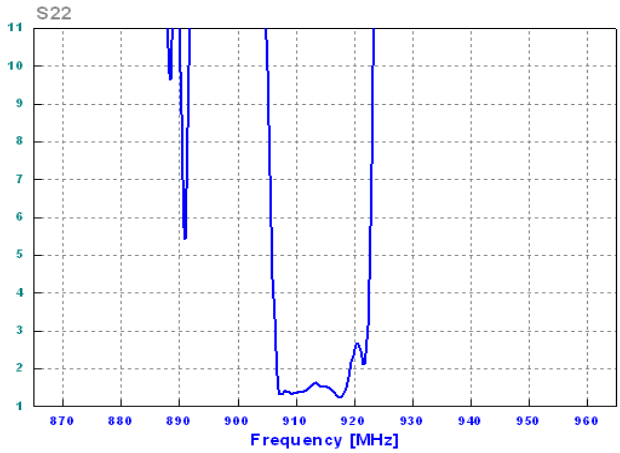
## ❒ Frequency Characteristics



## VSWR




## Smith Chart