



# PRODUCT SPECIFICATION

REV A January 2010


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
862-RF1220.0M-B	Wireless, Balanced RF SAW Filter

## Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Performance
- o Smith Chart

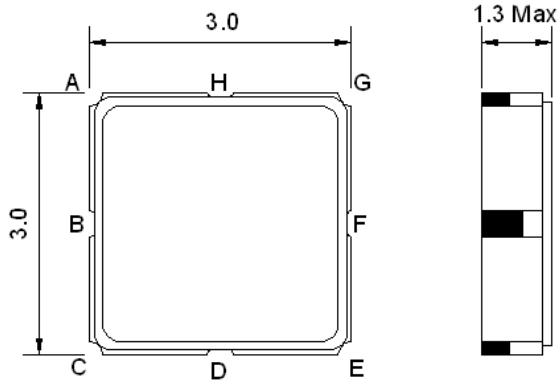
## Notes

- 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)

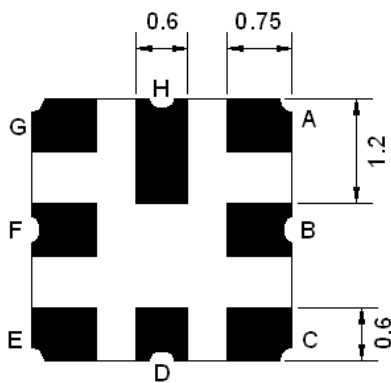




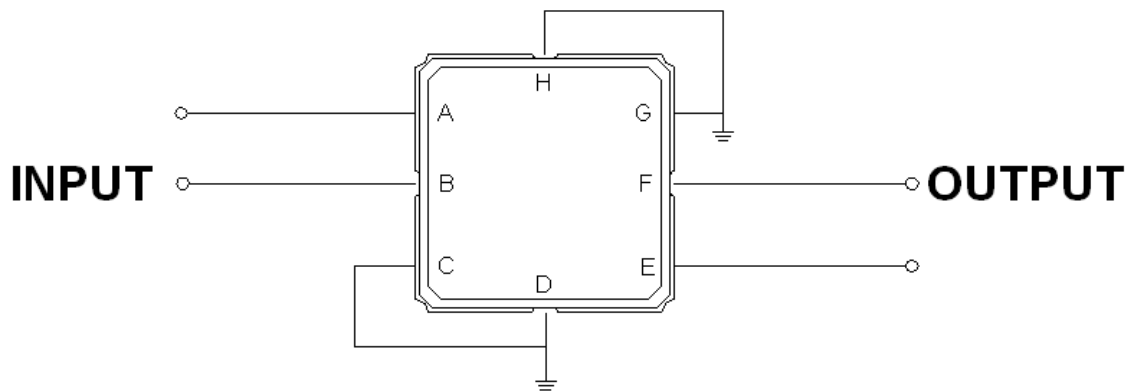
**Mechanical Dimensions (mm)**



Pin Description	
C, D, G, H	Ground
A, B	In
E, F	Out



**Test Circuit**



Source Impedance: 200 Ω

Load Impedance: 200 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	-	-	3
Maximum Input Power	dBm	-	-	0
Source Impedance (balance ended) <sup>(1)</sup>	Ω	-	200	-
Load Impedance (balance ended) <sup>(1)</sup>	Ω	-	200	-

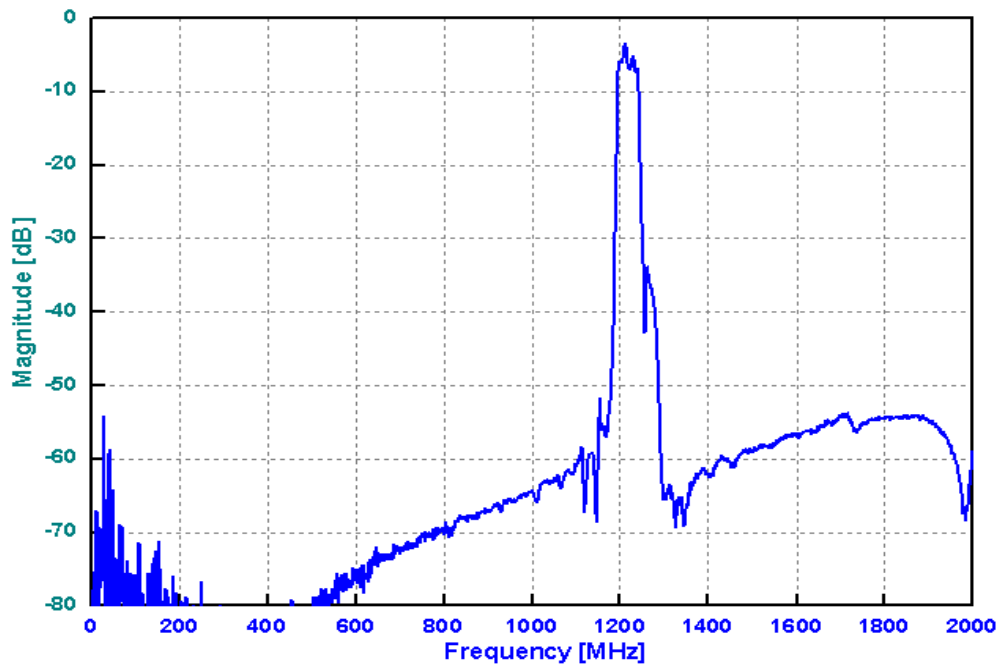
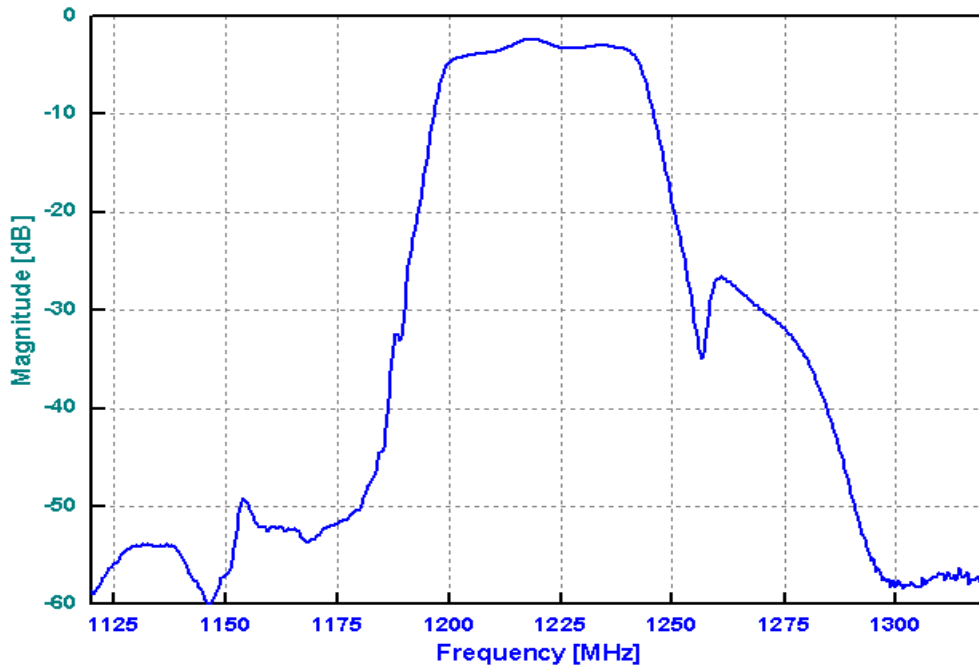
Notes: With Matching Network ns

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1220.0	-
Insertion Loss within 1206.0 ~ 1234.0 MHz	dB	-	4.0	5.7
Amplitude Ripple within 1206.0 ~ 1234.0 MHz	dB <sub>p-p</sub>	-	1.9	3.5
Group Delay Ripple within 1206.0 ~ 1234.0 MHz	ns <sub>p-p</sub>	-	15	-
Attenuation:				
300.0 ~ 1118.0 MHz	dB	40	59	-
1118.0 ~ 1146.0 MHz	dB	45	60	-
1300.0 ~ 2000.0 MHz	dB	45	59	-



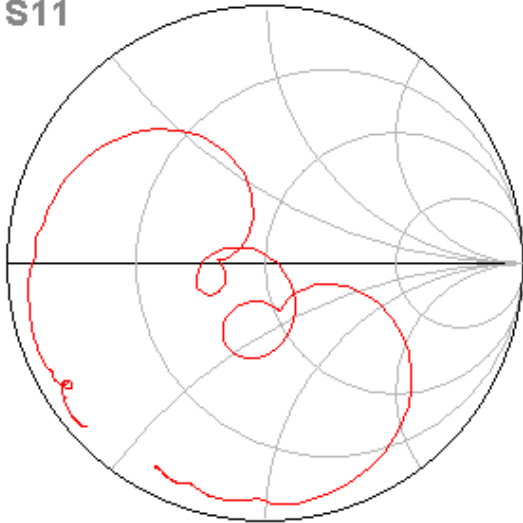
### Frequency Performance





### Smith Chart

**S11**



**S22**

