



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
863-RF1090.0M-A	Wireless, Balanced RF SAW Filter

Specification Contents

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

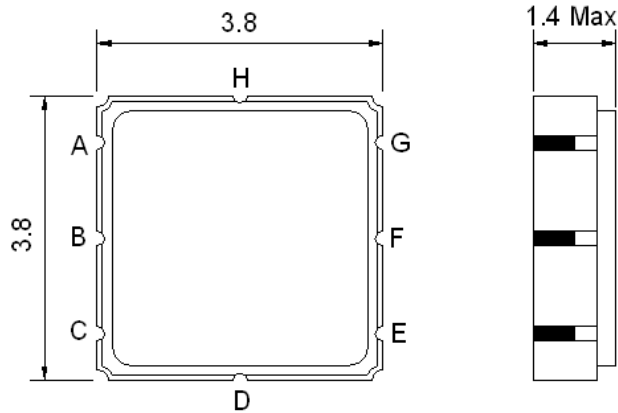
Notes

- 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)

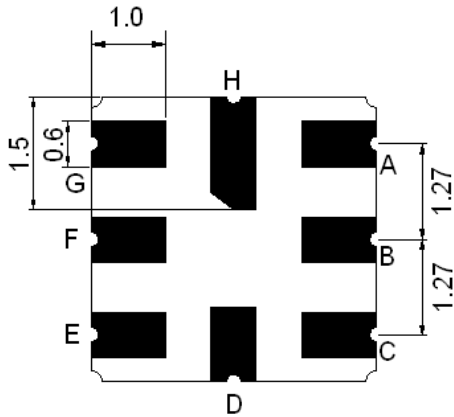




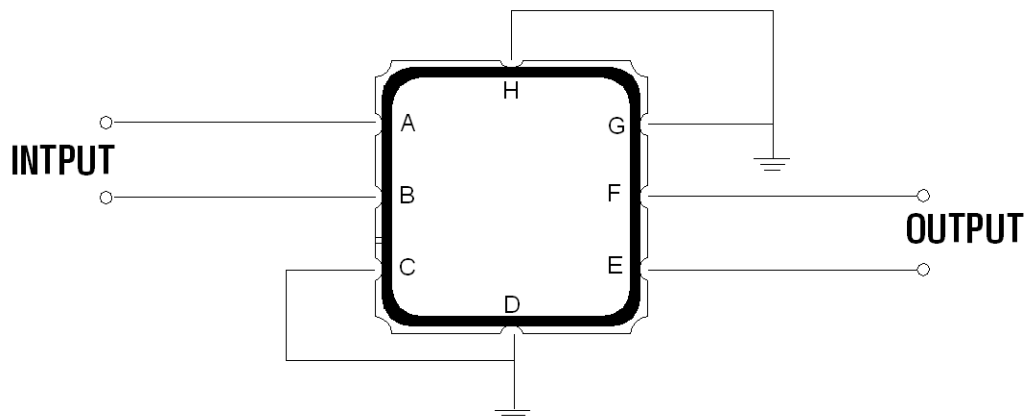
Mechanical Dimensions (mm)



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



Test Circuit



Source and Load Impedance: 50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (Balanced ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (Balanced ended) ⁽¹⁾	Ω	-	50	-

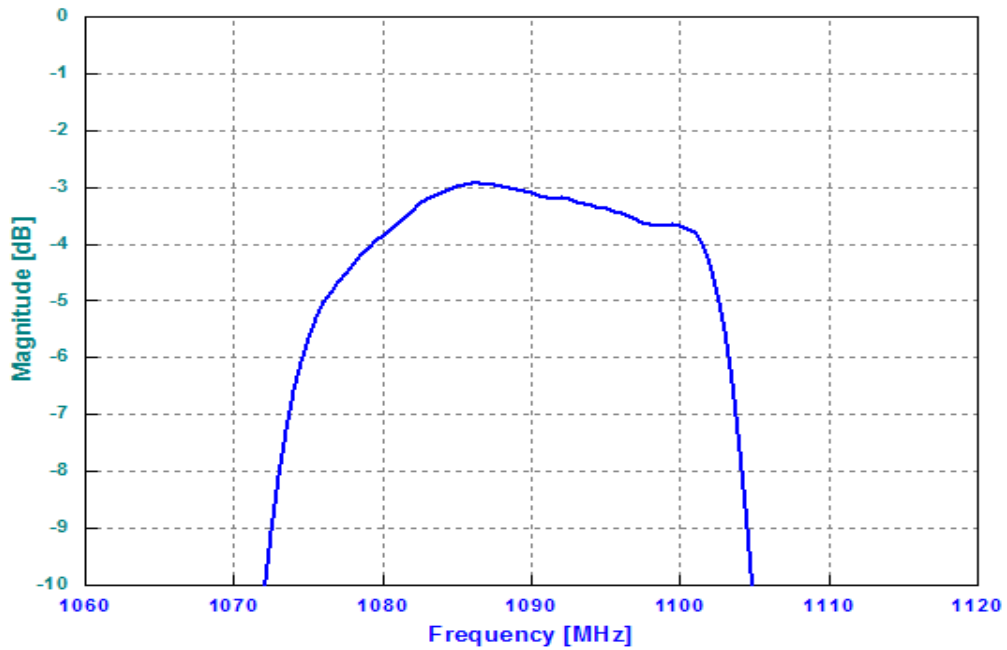
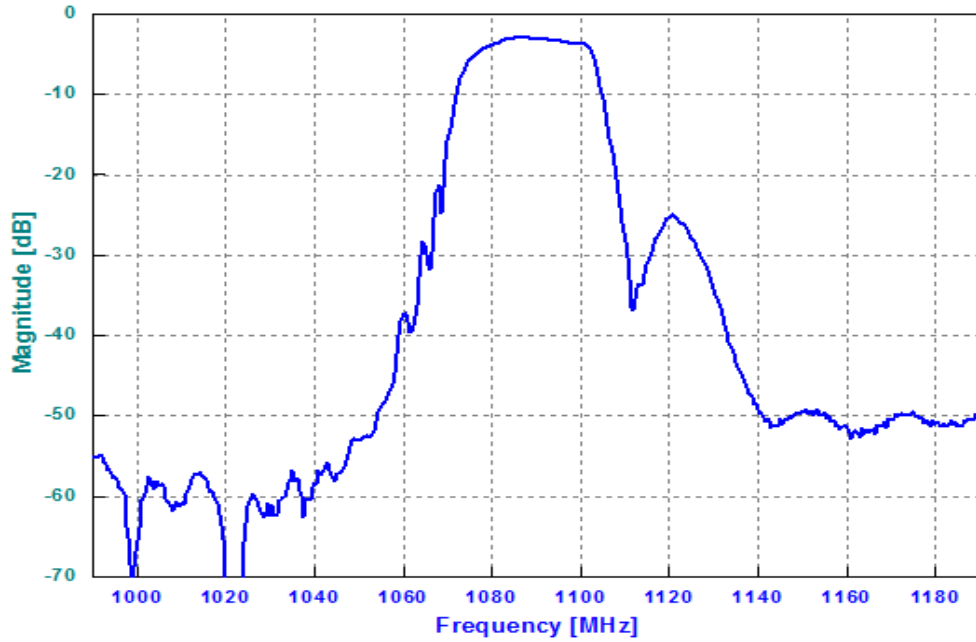
Notes: With Matching Network

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1090.0	-
Insertion Loss within 1084~1096MHz	dB	-	3.9	5.3
Amplitude Ripple within 1084~1096MHz	dB _{p-p}	-	0.6	1.5
Attenuation:				
500 ~ 924 MHz	dB	45	48	-
924 ~ 944 MHz	dB	45	50	-
944 ~ 1051 MHz	dB	40	47	-
1051 ~ 1061 MHz	dB	30	36	-
1170 ~ 2000 MHz	dB	40	43	-

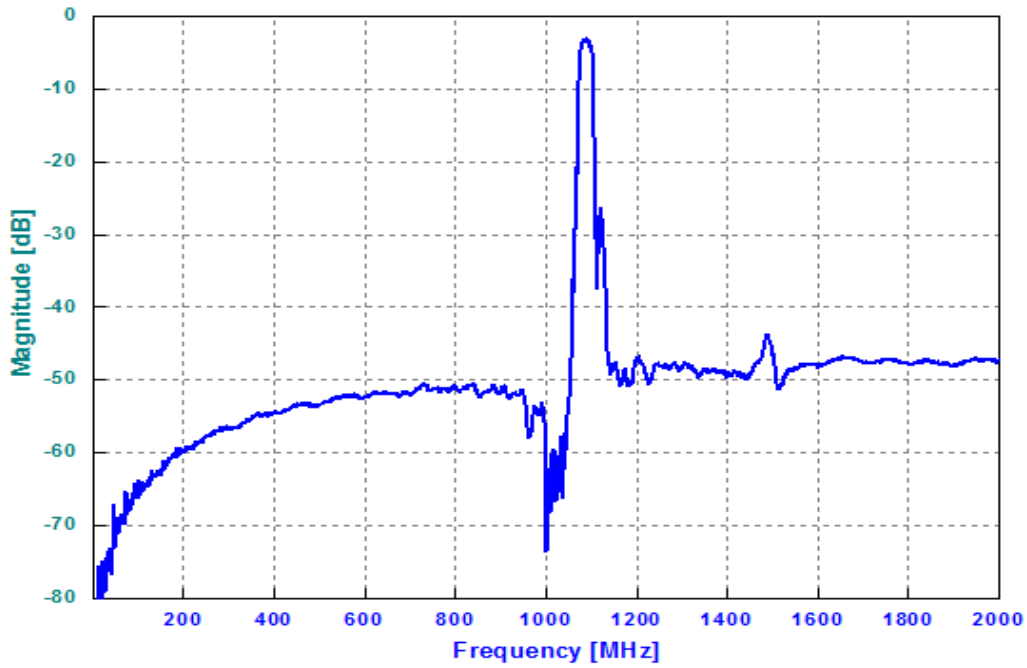


Frequency Performance



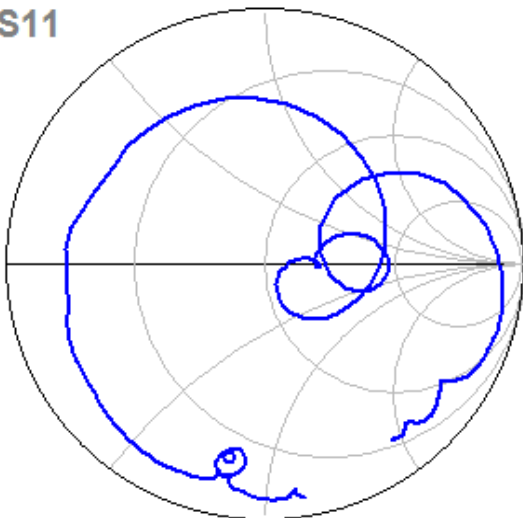


Wide Band



Smith Chart

S11



S22

