



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
862-RF1086.0M-A	Wireless, Balanced RF SAW Filter

Specification Contents

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

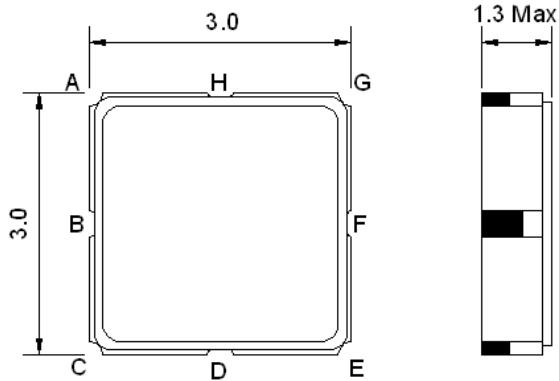
Notes

- 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)

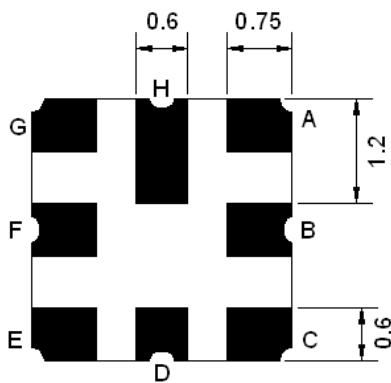




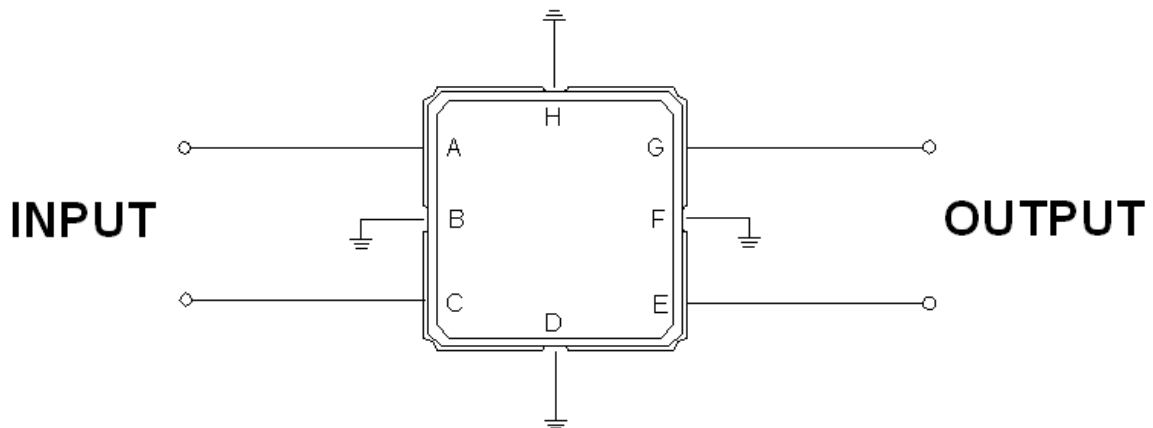
Mechanical Dimensions (mm)



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



Test Circuit



Source Impedance : 200 Ω

Load Impedance : 200 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (balanced ended) ⁽¹⁾	Ω	-	200	-
Load Impedance (balanced ended) ⁽¹⁾	Ω	-	200	-

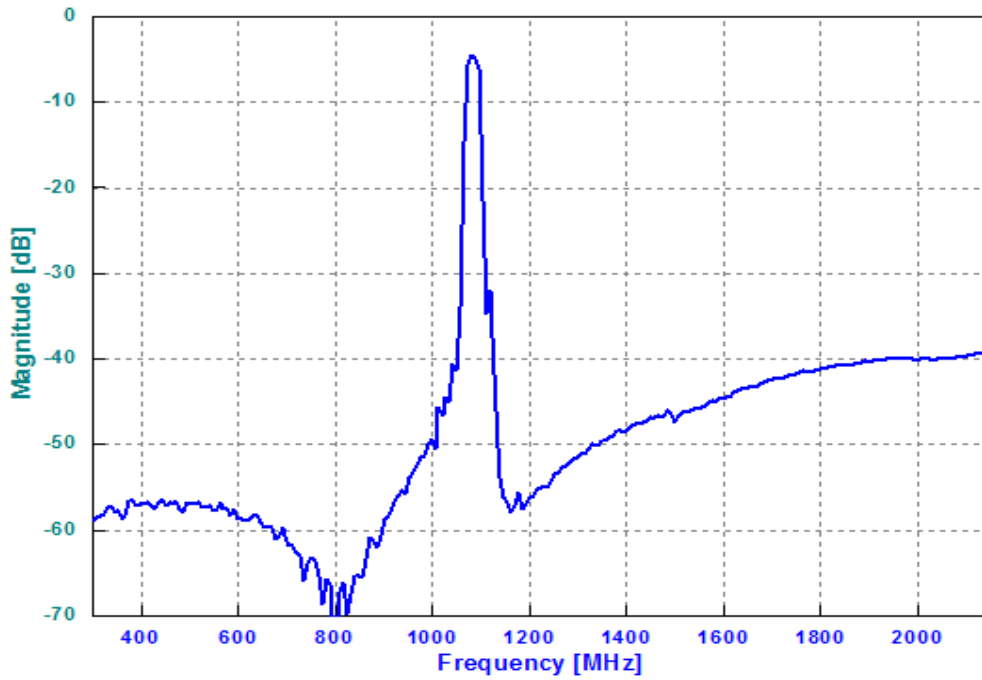
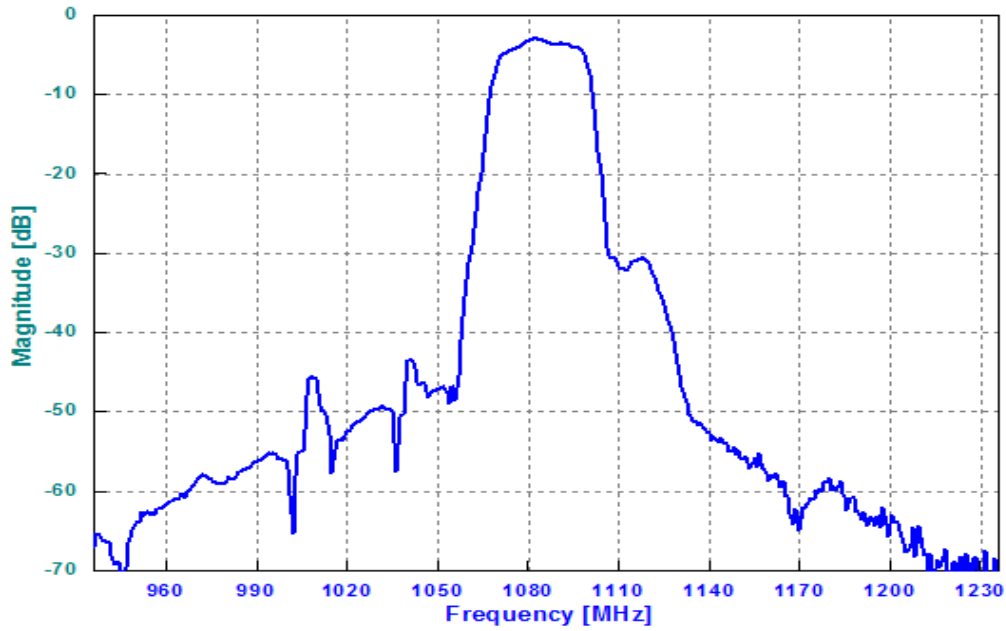
Notes: No Matching Network

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1086.0	-
Maximum Insertion Loss within 1081 ~ 1091 MHz	dB	-	3.5	4.5
Amplitude Ripple within 1081 ~ 1091 MHz	dB	-	0.6	1.5
Group Delay Ripple within 1081 ~ 1091 MHz	ns	-	7.0	-
Phase Balance within 1081 ~1091 MHz	deg.	-	10	-
Attenuation:				
500 ~ 988 MHz	dB	50	57	-
988 ~ 1002 MHz	dB	45	50	-
1038 ~ 1046 MHz	dB	35	40	-
1156 ~ 1600 MHz	dB	40	45	-
2040 ~ 2148 MHz	dB	30	35	-
Input / Output VSWR within 1081 ~ 1091 MHz	-	-	2.0	2.5

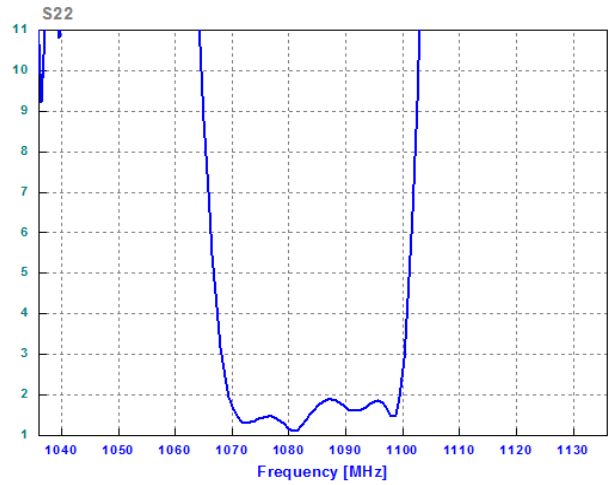
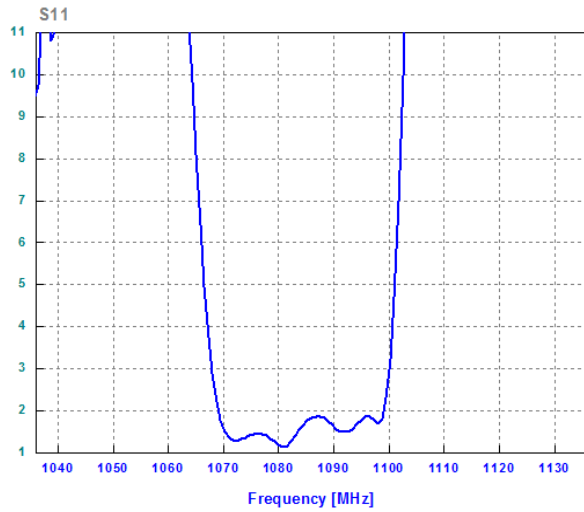


Frequency Performance





VSWR



Smith Chart

