



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
862-RF1690.0M-B	Wireless, Balanced RF SAW Filter

Specification Contents

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

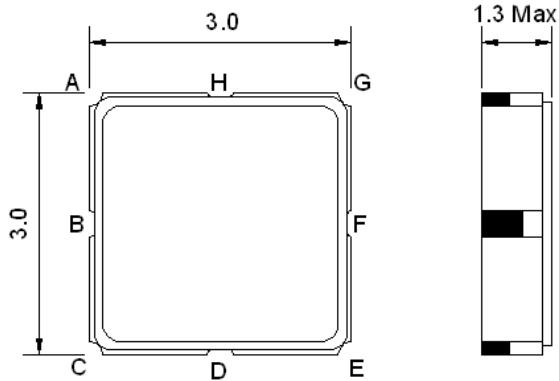
Notes

- 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)

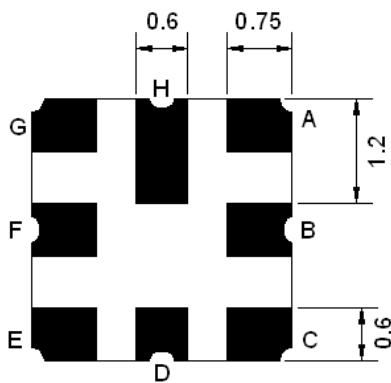




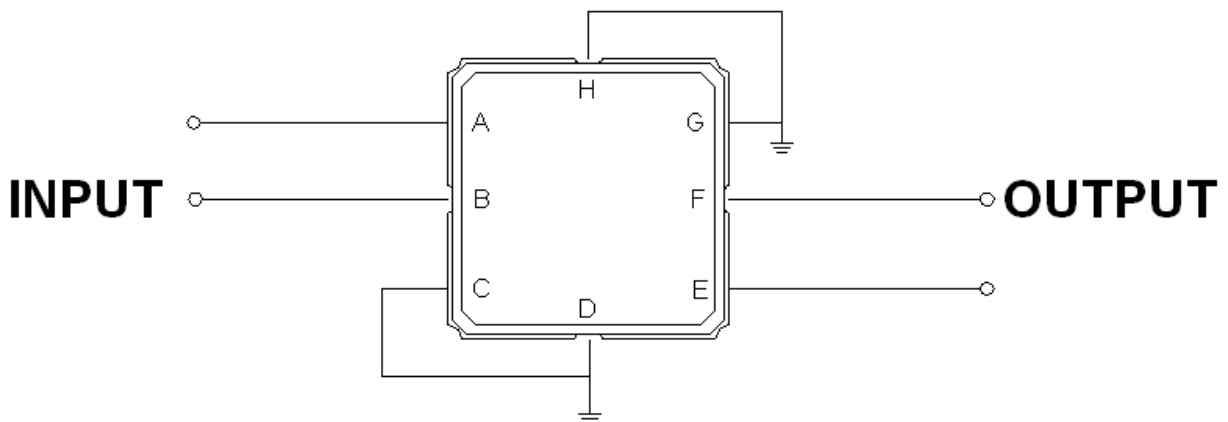
Mechanical Dimensions (mm)



Pin Description	
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	-10	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	-
Source Impedance (balanced ended) ⁽¹⁾	Ω	-	200	-
Load Impedance (balanced ended) ⁽¹⁾	Ω	-	200	-

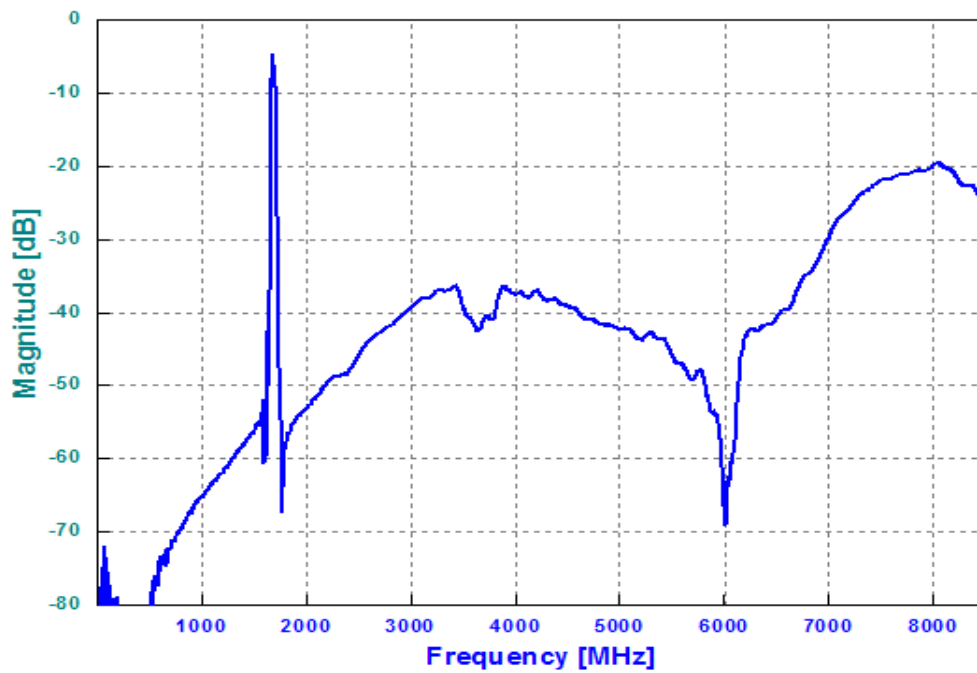
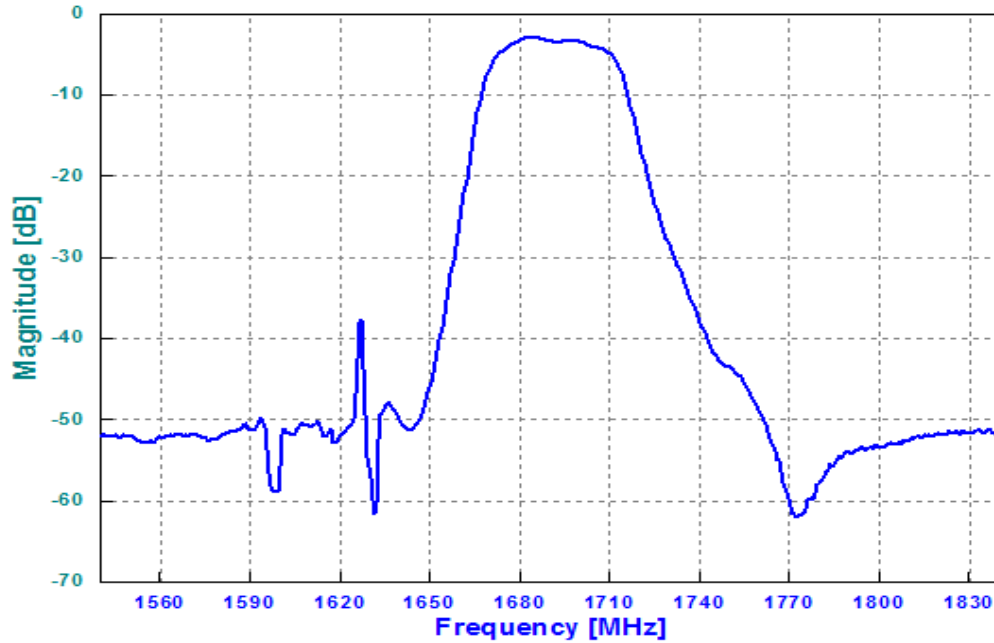
Notes: No Matching Network

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1690.0	-
Insertion Loss within 1679.7 ~ 1698.8 MHz	dB	-	3.3	4.5
Amplitude Ripple within 1679.7 ~ 1698.8 MHz	dB _{p-p}	-	0.6	1.5
Group Delay Ripple within 1679.7 ~ 1698.8 MHz	ns _{p-p}	-	8.0	20.0
Input / Output VSWR within 1679.7 ~ 1698.8 MHz	-	-	2.30	2.70
Attenuation:				
54.0 ~ 1100.0 MHz	dB	50	63	-
3262.7 ~ 3352.6 MHz	dB	30	37	-
4911.0 ~ 5009.0 MHz	dB	35	43	-
6559.4 ~ 6665.1 MHz	dB	30	38	-
8211.1 ~ 8319.4 MHz	dB	15	24	-

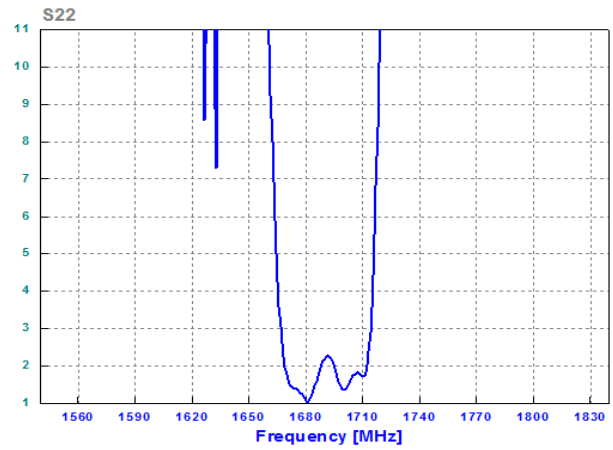
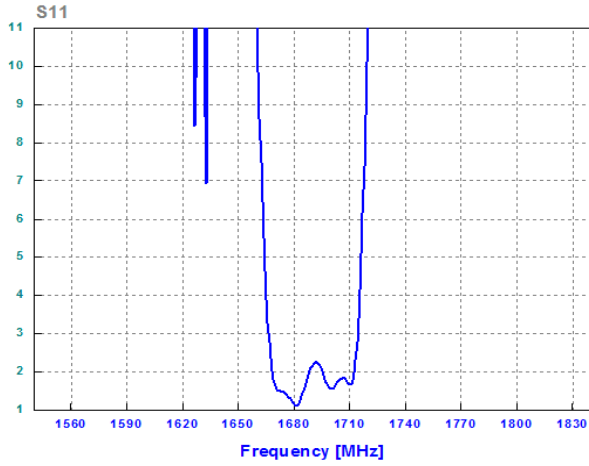


Frequency Performance





VSWR



Smith Chart

