



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
862-RF1643.5M-A	Wireless, Balanced RF SAW Filter

Specification Contents

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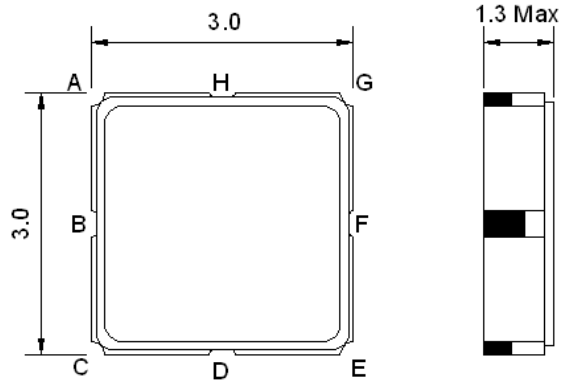
Notes

- 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)

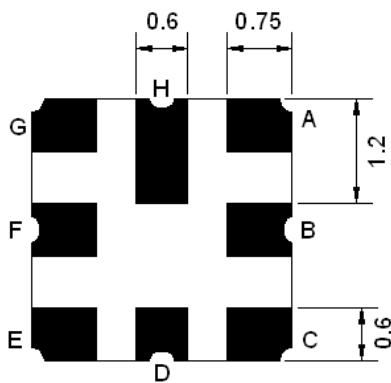




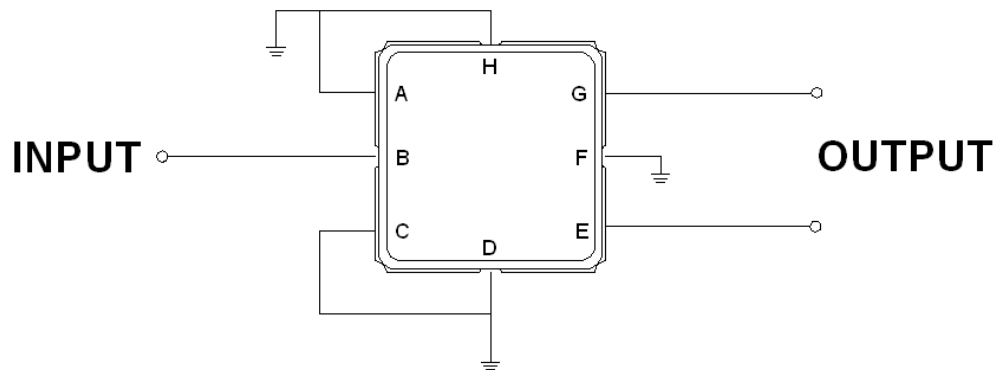
Mechanical Dimensions (mm)



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



Test Circuit



Source Impedance: 50 Ω

Load Impedance: 50 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	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (balanced ended) ⁽¹⁾	Ω	-	50	-

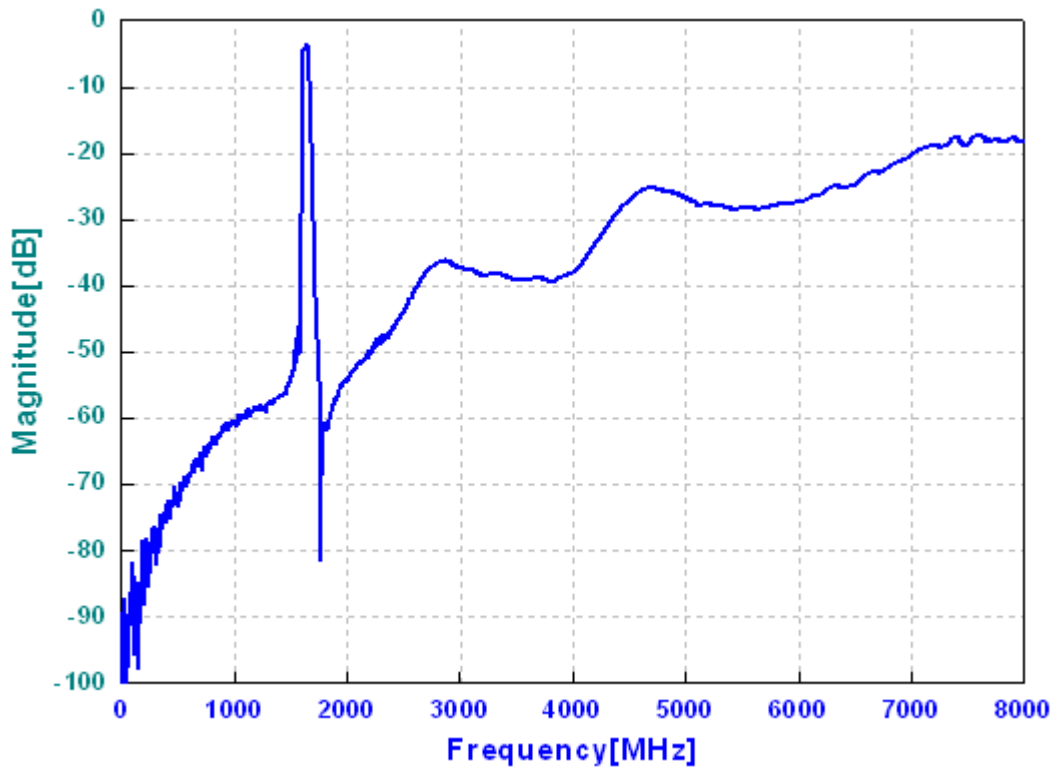
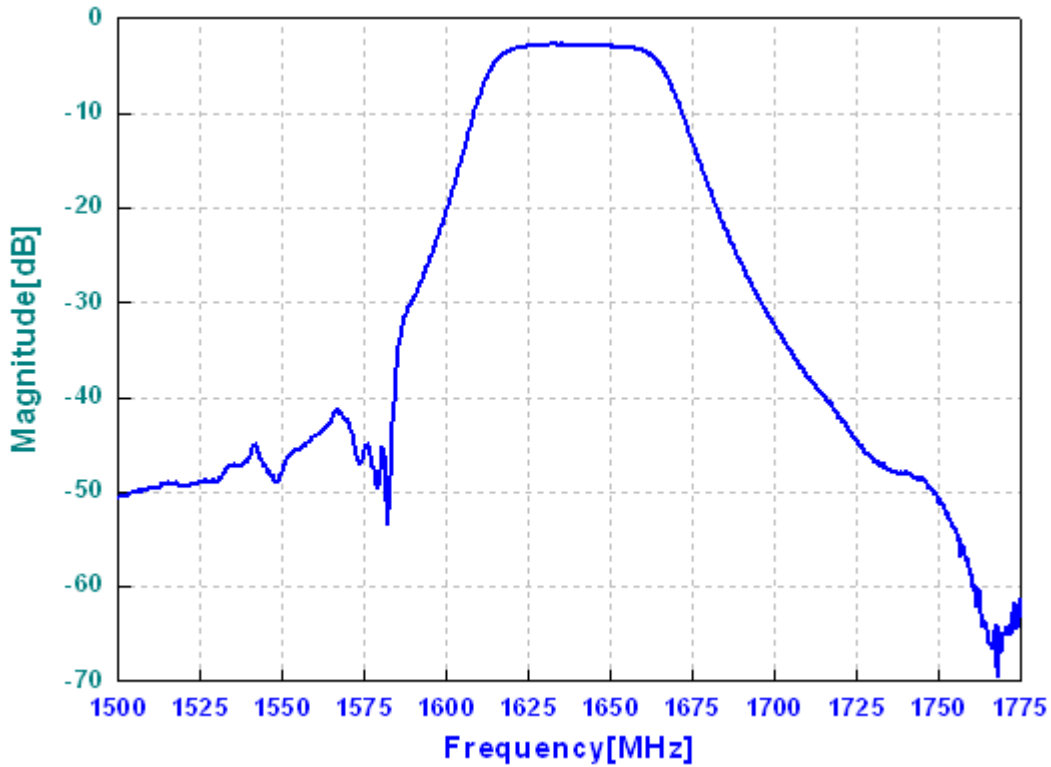
Notes: No Matching Network

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1643.5	-
Insertion Loss within 1626.5 ~ 1660.5 MHz	dB	-	3.2	4.0
Amplitude Ripple within 1626.5 ~ 1660.5 MHz	dB _{p-p}	-	0.6	1.5
Attenuation:				
D.C. ~ 1000.0 MHz	dB	50	60	-
1000.0 ~ 1575.0 MHz	dB	35	40	-
1575.0 ~ 1590.0 MHz	dB	20	33	-
1700.0 ~ 1750 MHz	dB	20	30	-
1750.0 ~ 1885.0 MHz	dB	37	45	-
1885.0 ~ 2200.0 MHz	dB	30	44	-
2200.0 ~ 2500.0 MHz	dB	28	38	-
2500.0 ~ 40000.0 MHz	dB	20	30	-
Input / Output VSWR within 1626.5 ~ 1660.5 MHz	-	-	1.7	2.2

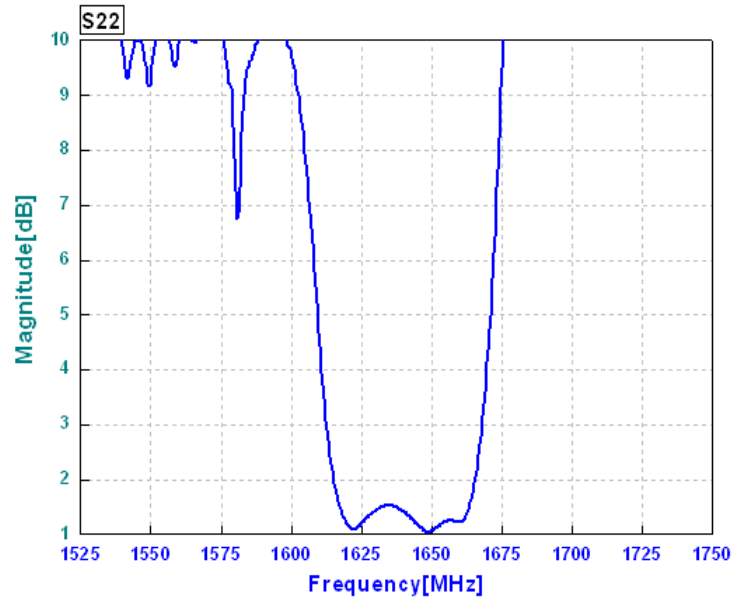
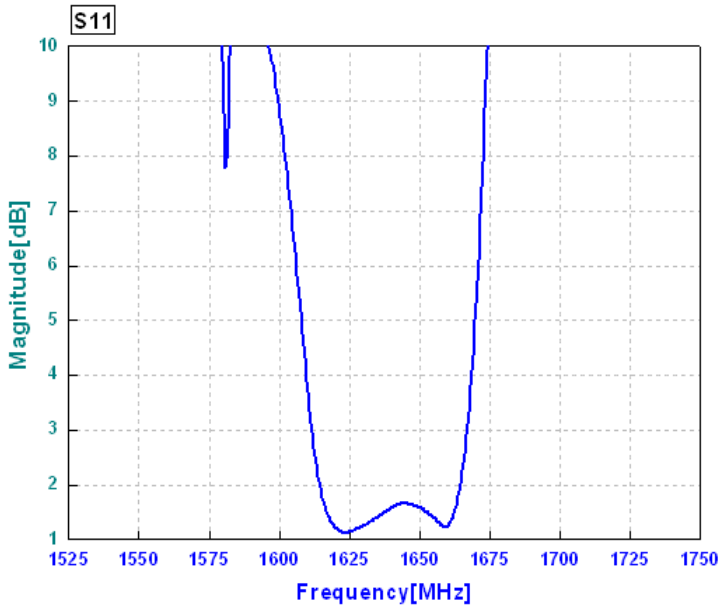


Frequency Performance





VSWR



Smith Chart

