



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
803-RF1415.0M-A	Wireless, RF SAW Filter

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
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- o Frequency Performance
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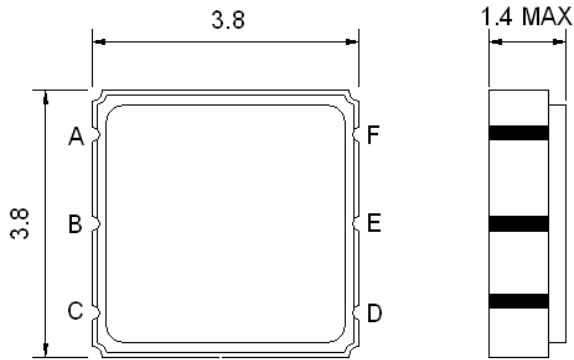
Notes

- 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)

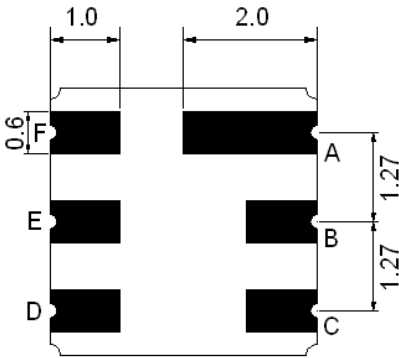




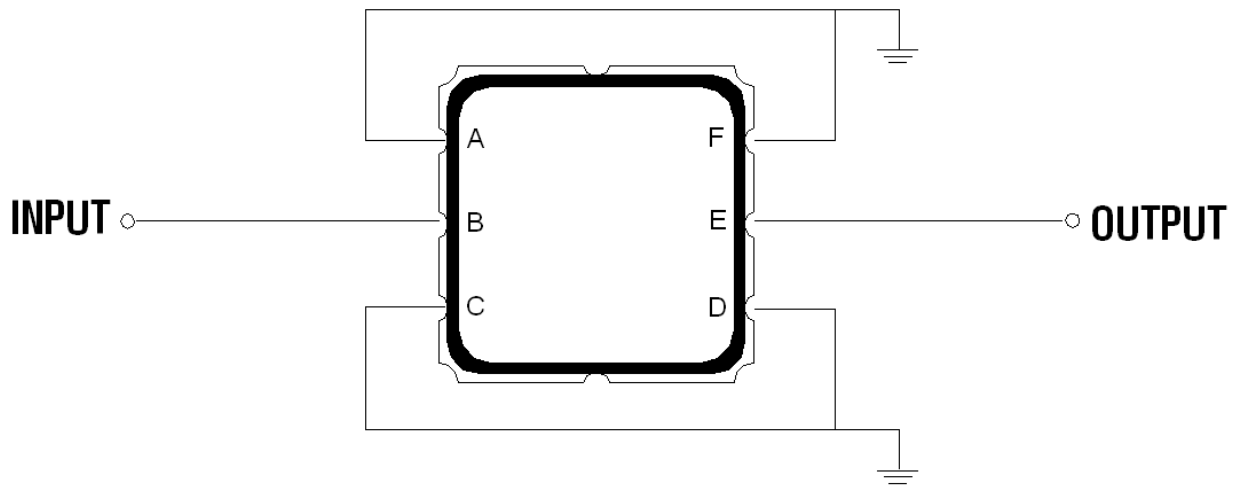
Mechanical Dimensions (mm)



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



Test Circuit



Source and Load Impedance: 50 Ω



Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	13
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

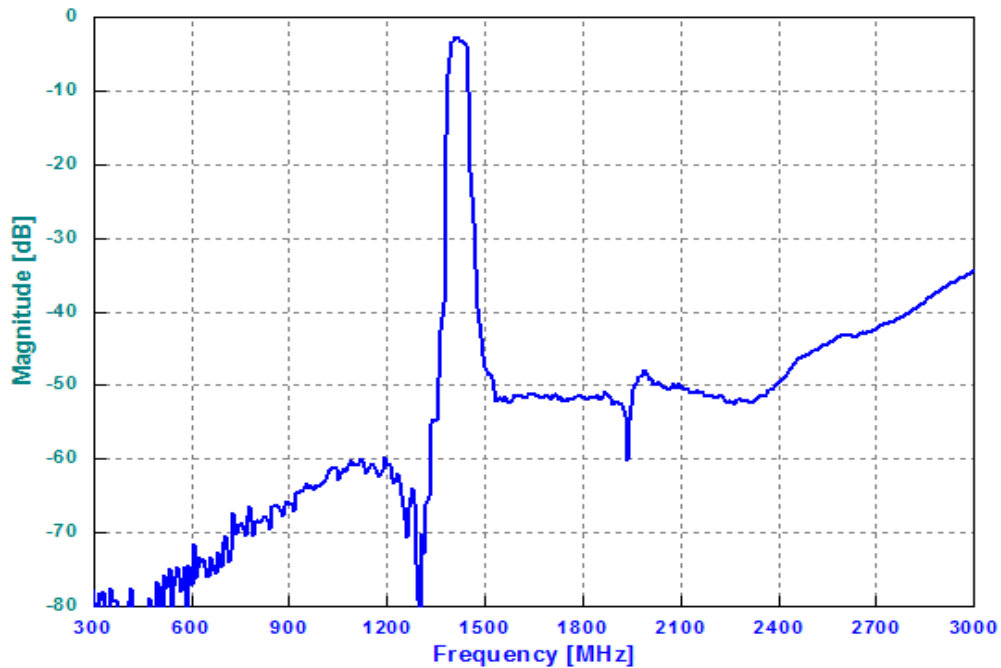
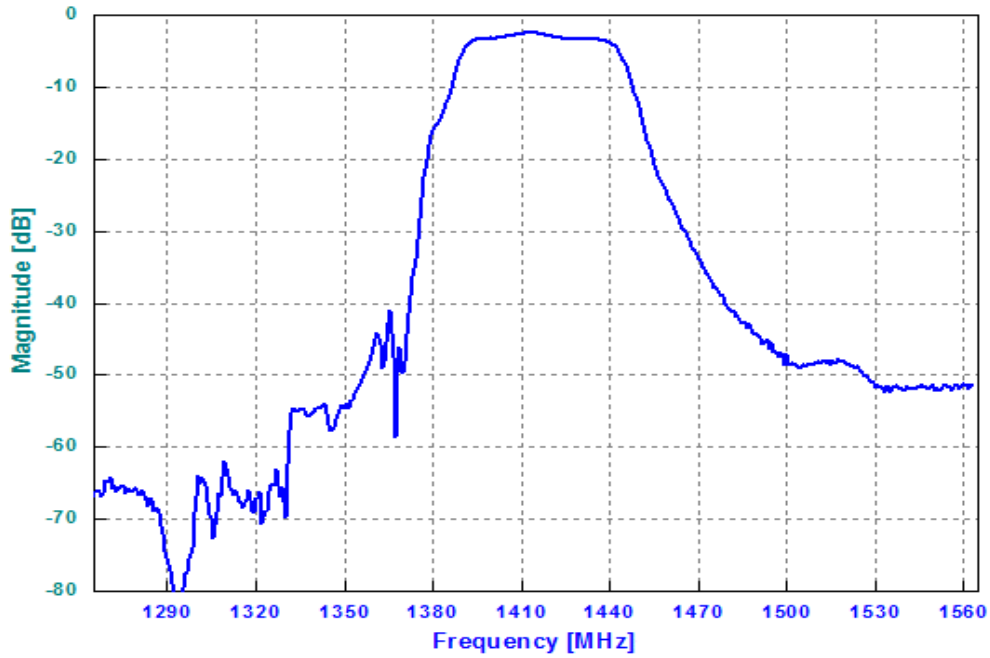
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1415.0	-
Insertion Loss within 1395 ~ 1432 MHz	dB	-	3.5	4.5
Amplitude Ripple within 1395 ~ 1432 MHz	dB _{p-p}	-	1.0	2.0
Attenuation:				
D.C. ~ 900 MHz	dB	50	60	-
900 ~ 960 MHz	dB	50	60	-
960 ~ 1320 MHz	dB	40	55	-
1500 ~ 1860 MHz	dB	30	45	-
1860 ~ 1910 MHz	dB	40	50	-
1910 ~ 3000 MHz	dB	30	35	-
VSWR within 1395 ~ 1432 MHz	-	-	2.0	2.5

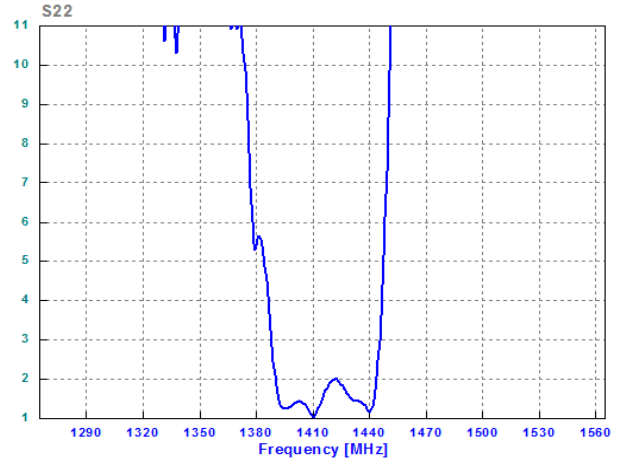
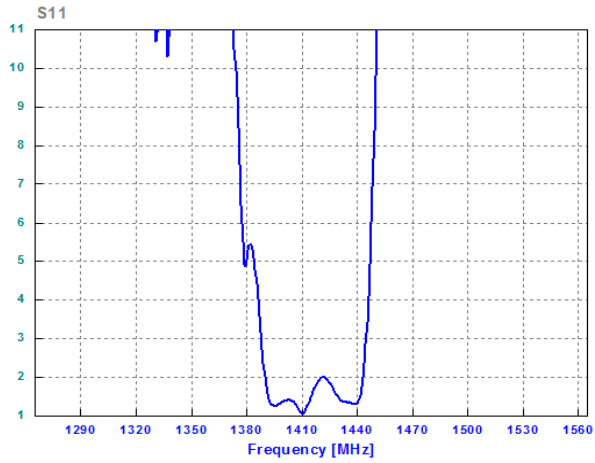


Frequency Performance





VSWR



Smith Chart

