



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
803-RF1003.0M-A	Wireless, RF SAW Filter

Specification Contents

- o Mechanical Dimensions
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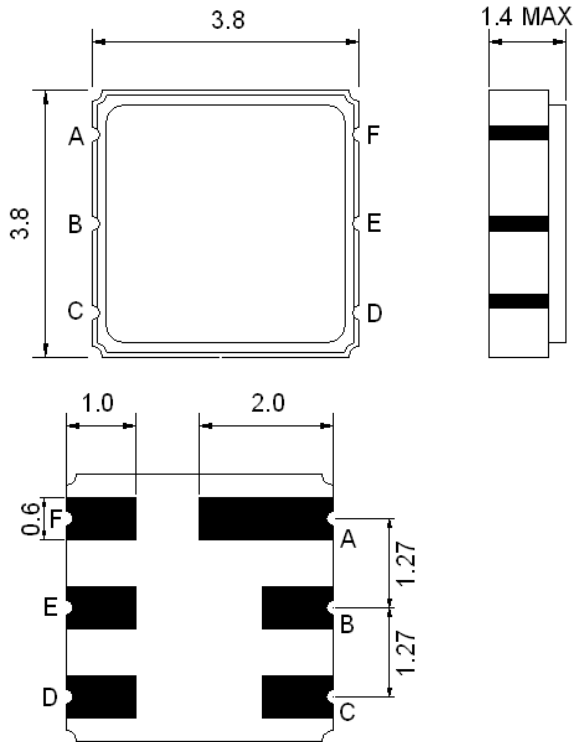
Notes

- 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)



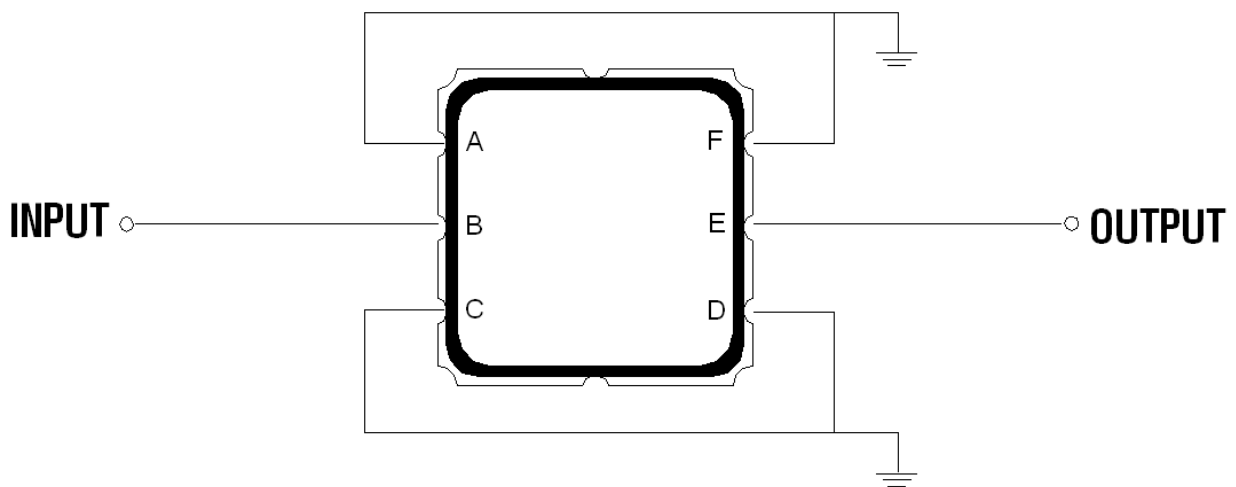


Mechanical Dimensions (mm)



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	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

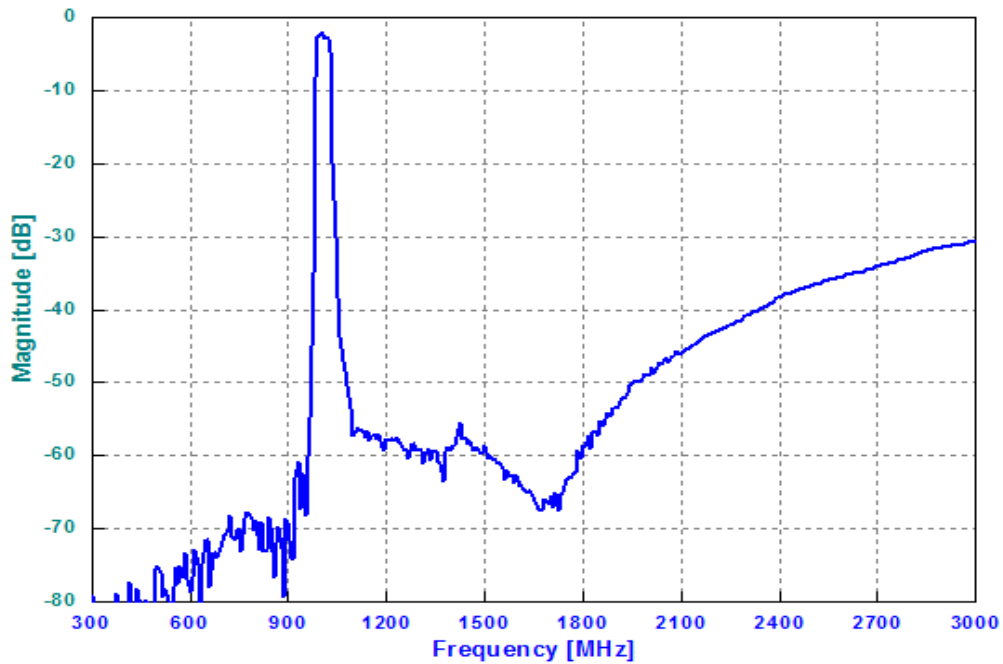
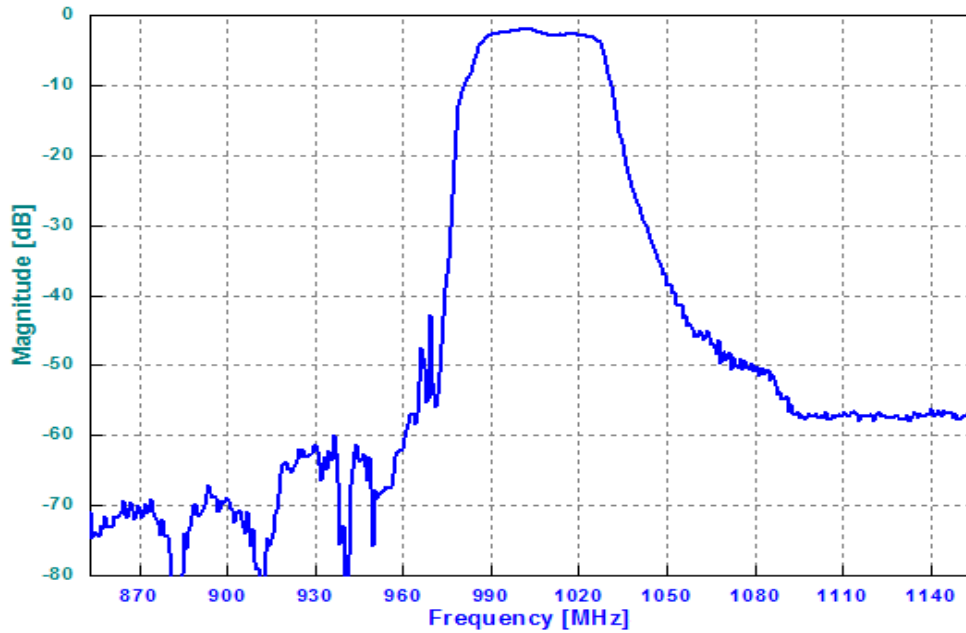
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1003.0	-
Insertion Loss within 988 ~ 1018 MHz	dB	-	3.5	4.5
Amplitude Ripple within 988 ~ 1018 MHz	dB _{p-p}	-	1.5	2.5
Attenuation:				
D.C. ~ 942 MHz	dB	50	60	-
942 ~ 964 MHz	dB	40	50	-
964 ~ 967 MHz	dB	40	50	-
1039 ~ 1040 MHz	dB	13	23	-
1040 ~ 1084 MHz	dB	15	25	-
1084 ~ 1559 MHz	dB	35	50	-
1559 ~ 3000 MHz	dB	20	28	-
VSWR within 988 ~ 1018 MHz	-	-	2.3	2.7

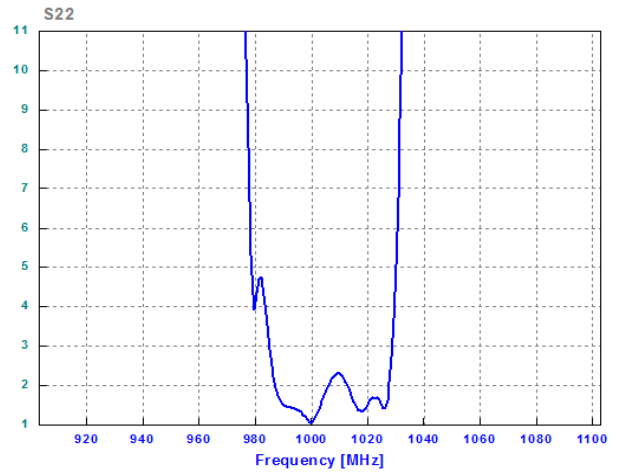
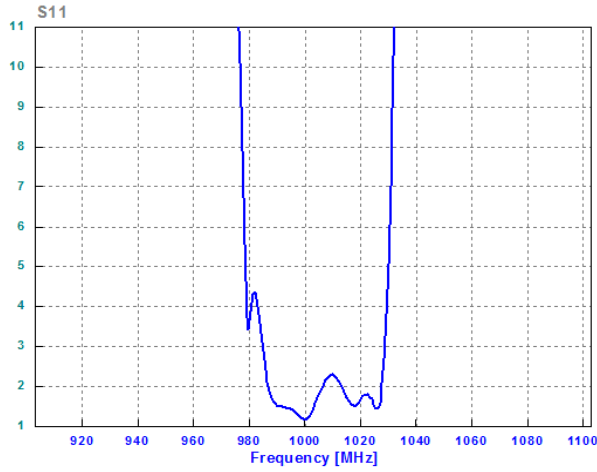


Frequency Performance





VSWR



Smith Chart

