



REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
803-RF939.0M-A	Wireless, RF SAW Filter

Specification Contents

- o Mechanical Dimensions
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- o Maximum Ratings
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- o Frequency Performance
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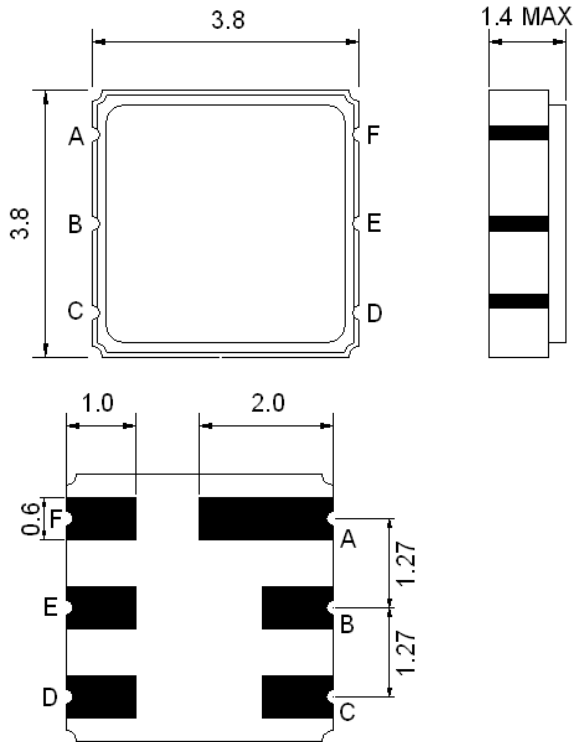
Notes

- 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)



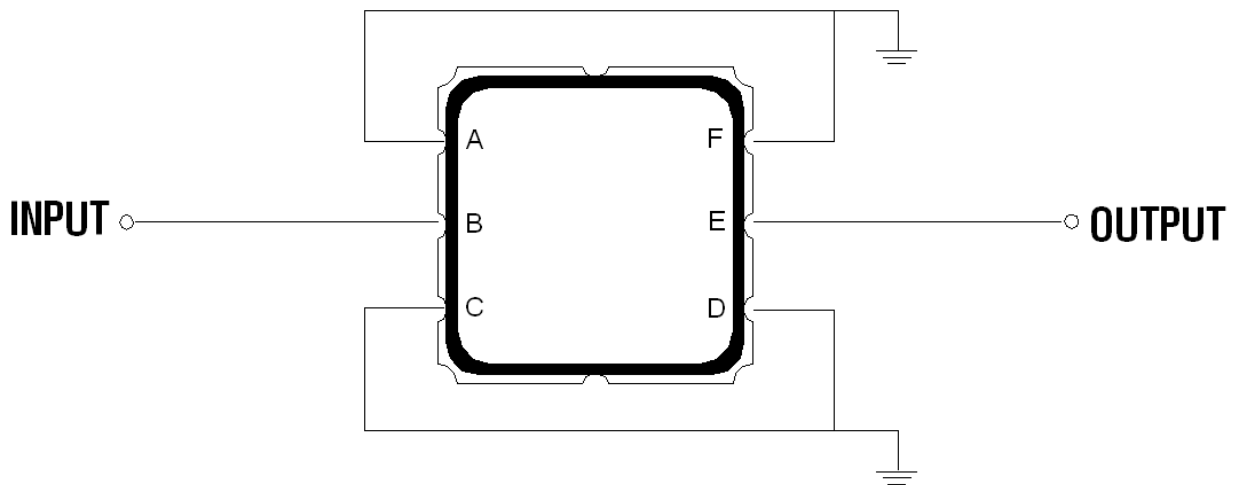


Mechanical Dimensions (mm)



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	-30	-	+65
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

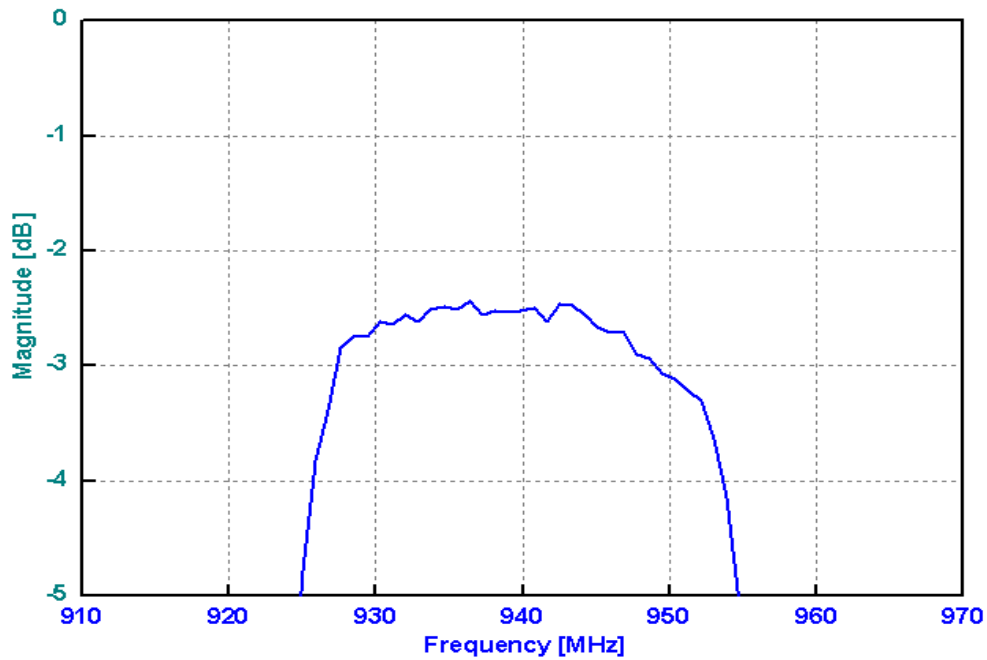
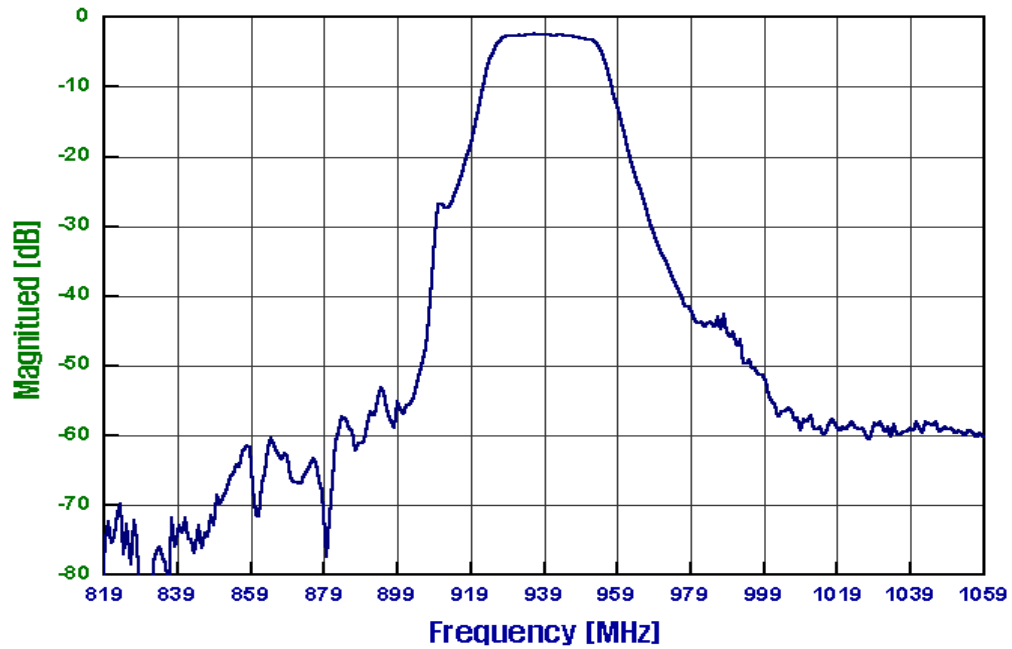
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	939.0	-
Insertion Loss within 936 ~ 942 MHz	dB	-	2.5	3.0
Amplitude Ripple within 936 ~ 942 MHz	dB _{p-p}	-	0.3	1.0
Attenuation:				
D.C. ~ 840 MHz	dB	50	65	-
840 ~ 894 MHz	dB	45	55	-
984 ~ 1000 MHz	dB	40	43	-
1000 ~ 1500 MHz	dB	50	60	-
1500 ~ 2000 MHz	dB	40	45	-
VSWR within 936 ~ 942 MHz	-	-	1.5	2.0

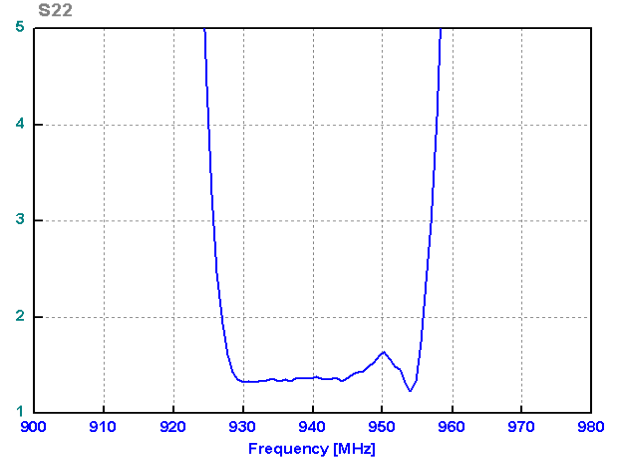
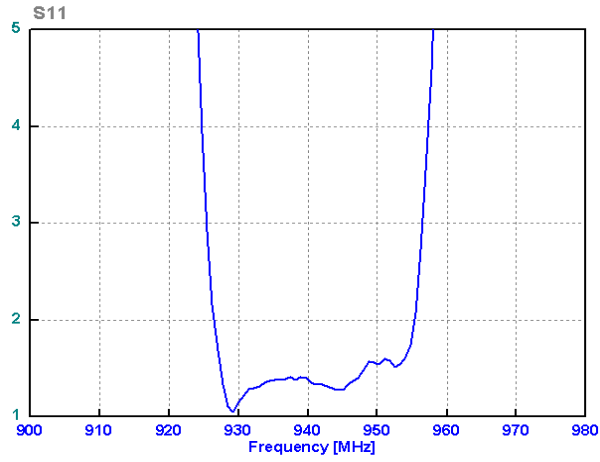


Frequency Performance





VSWR



Smith Chart

