



# PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF853.5M-B	Wireless, RF SAW Filter

## Specification Contents

- o Mechanical Dimensions
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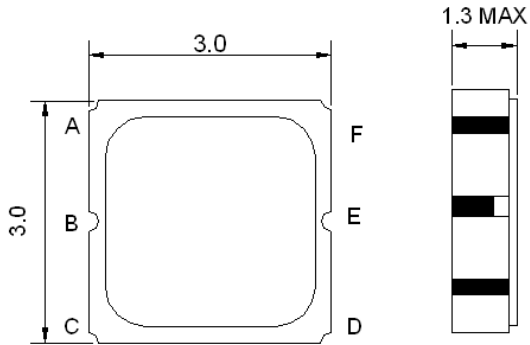
## Notes

- 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)

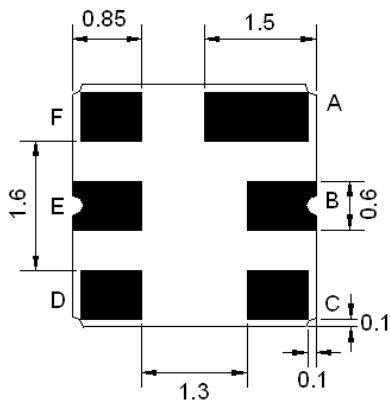




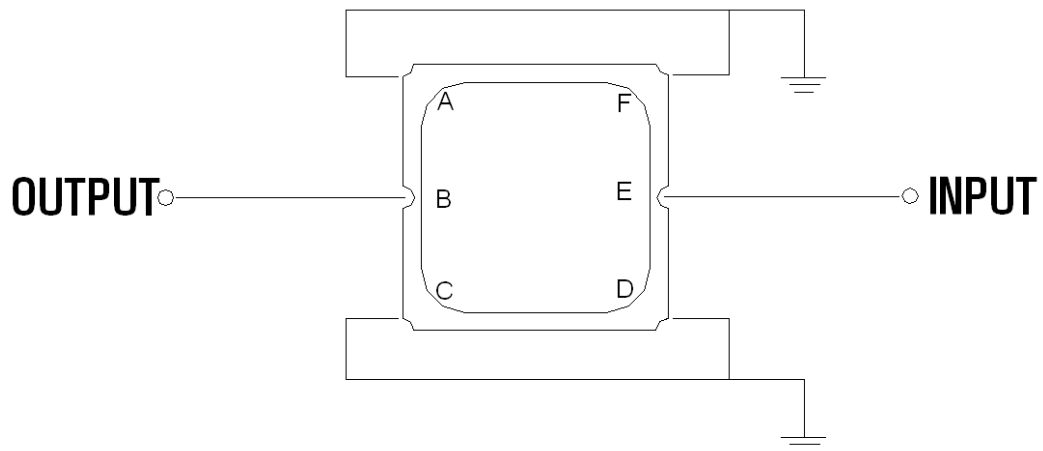
**Mechanical Dimensions (mm)**



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



**Test Circuit**



Source and Load Impedance: 50 Ω



## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-

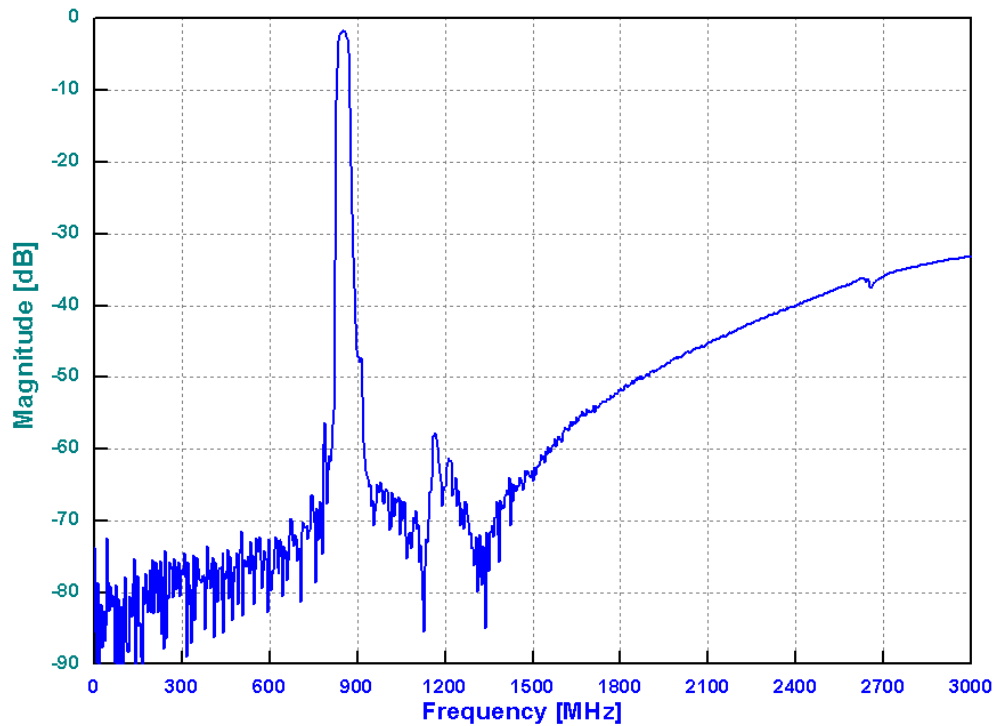
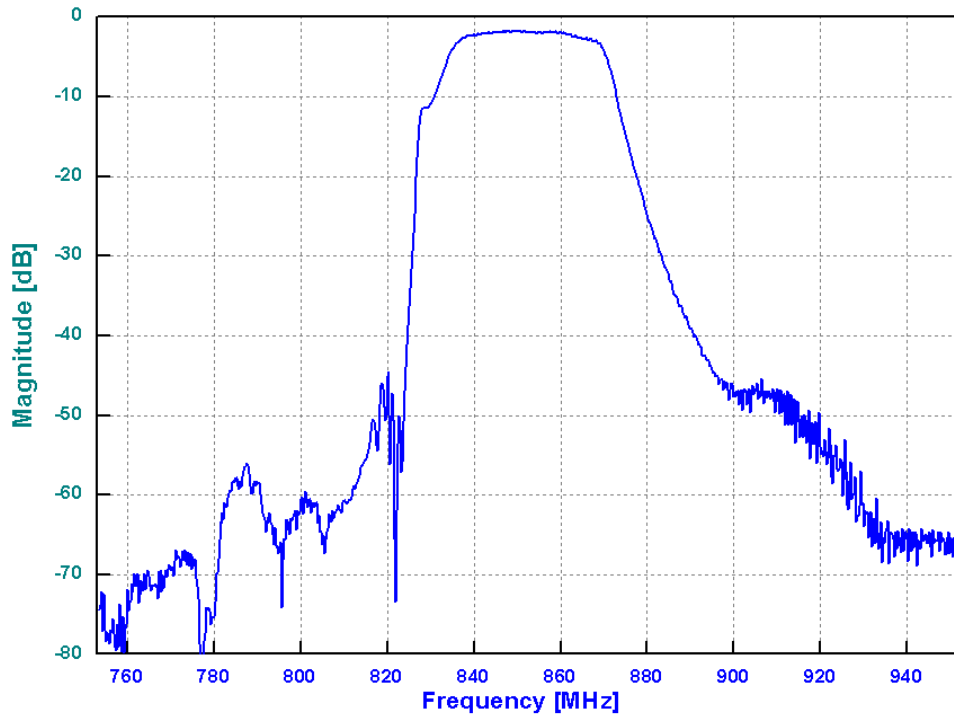
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	853.5	-
Insertion Loss within 851 ~ 856 MHz	dB	-	2.0	3.5
Group delay ripple within 851 ~ 856 MHz	ns <sub>p-p</sub>	-	12	40
Amplitude Ripple within 851 ~ 856 MHz	dB <sub>p-p</sub>	-	0.2	1.0
Attenuation:				
D.C. ~ 806 MHz	dB	45	55	-
806 ~ 811 MHz	dB	45	55	-
905 ~ 979 MHz	dB	35	45	-
1070 ~ 1089 MHz	dB	47	51	-
1089 ~ 3000 MHz	dB	27	32	-
VSWR within 851 ~ 856 MHz	-	-	1.6	2.0

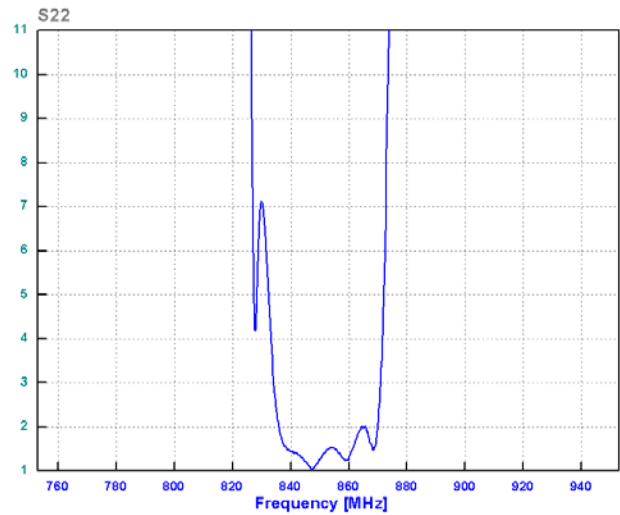
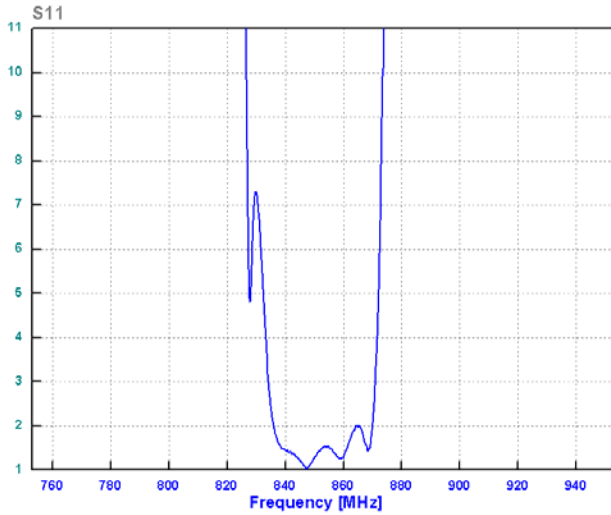


### Frequency Performance





### VSWR



S

### Smith Chart

