



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF858.5M-A	Wireless, RF SAW Filter

Specification Contents

- o Mechanical Dimensions
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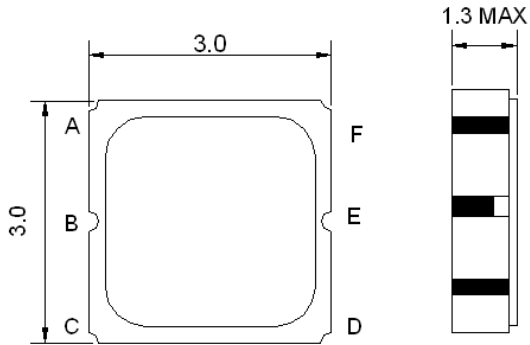
Notes

- 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)

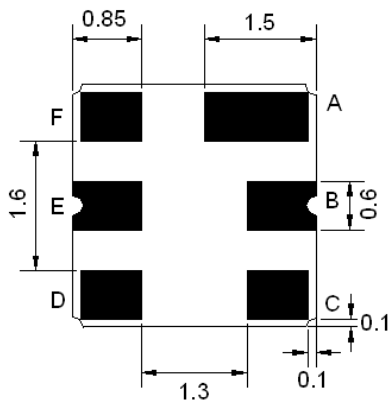




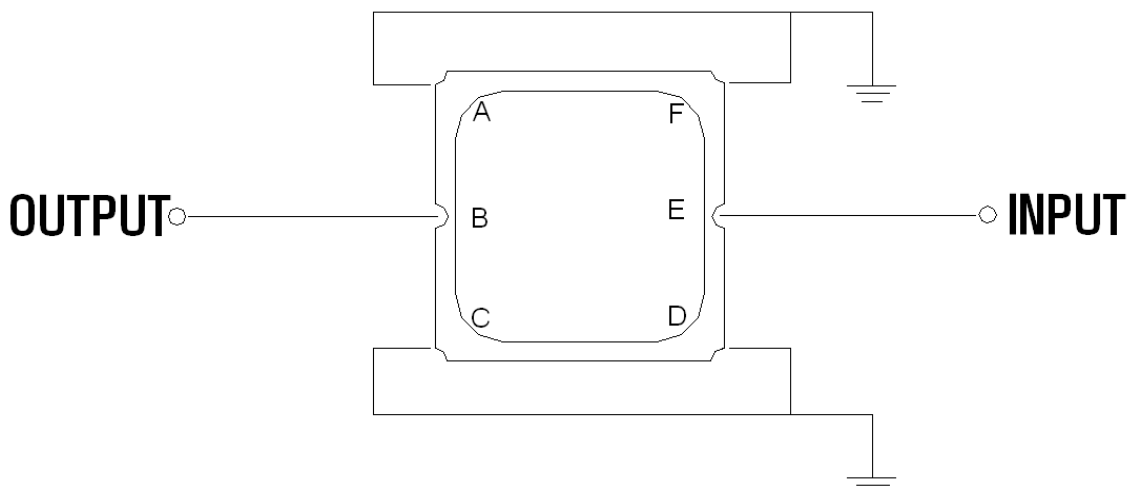
Mechanical Dimensions (mm)



Pin Description	
A, C, D, F	Ground
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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

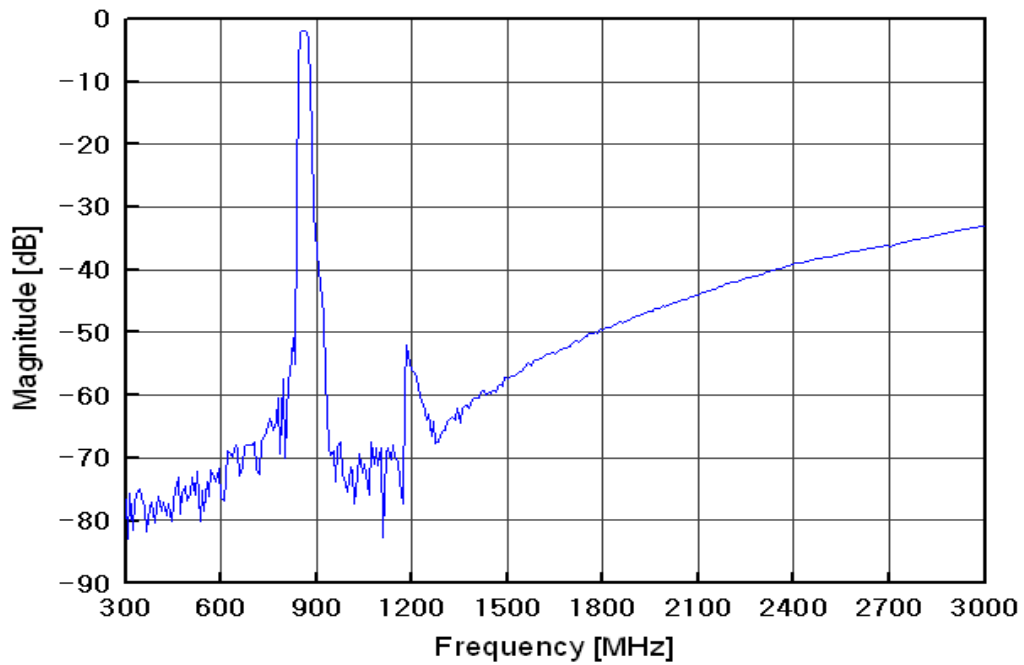
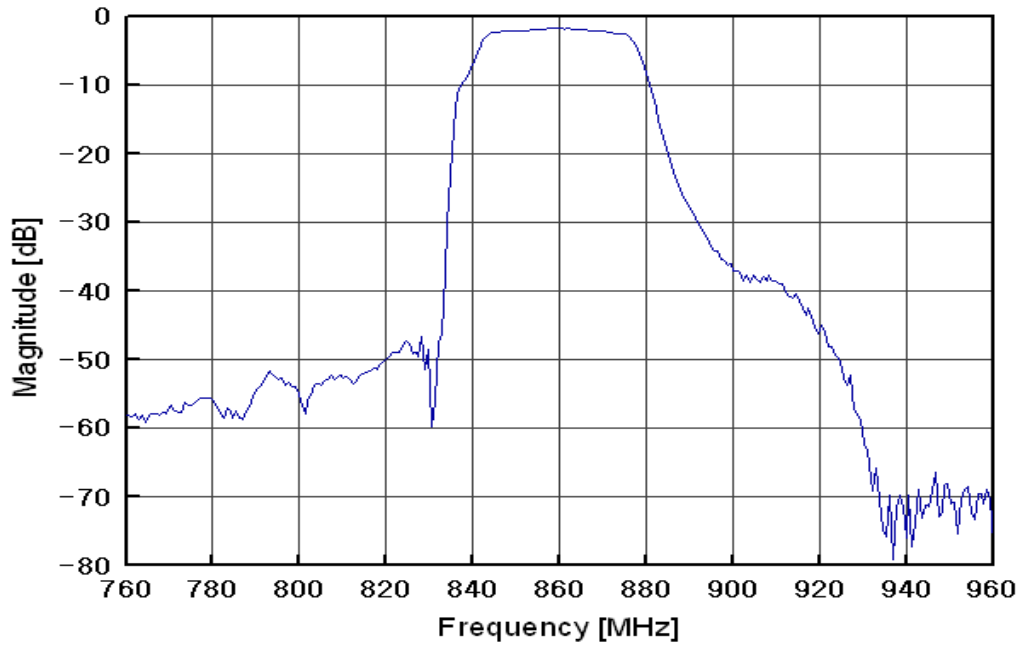
Notes: (1) No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	858.5	-
Insertion Loss within 851 ~ 866 MHz	dB	-	2.2	3.5
Group delay ripple within 851 ~ 866 MHz	ns _{p-p}	-	15	40
Amplitude Ripple within 851 ~ 866 MHz	dB _{p-p}	-	0.6	1.5
Attenuation:				
D.C. ~ 806 MHz	dB	45	55	-
806 ~ 821 MHz	dB	40	50	-
896 ~ 902 MHz	dB	28	34	-
905.825 ~ 924.825 MHz	dB	27	39	-
960 ~ 979 MHz	dB	37	53	-
1070 ~ 1089 MHz	dB	47	51	-
1089 ~ 3000 MHz	dB	27	32	-
VSWR within 851 ~ 866 MHz	-	-	1.6	2.0

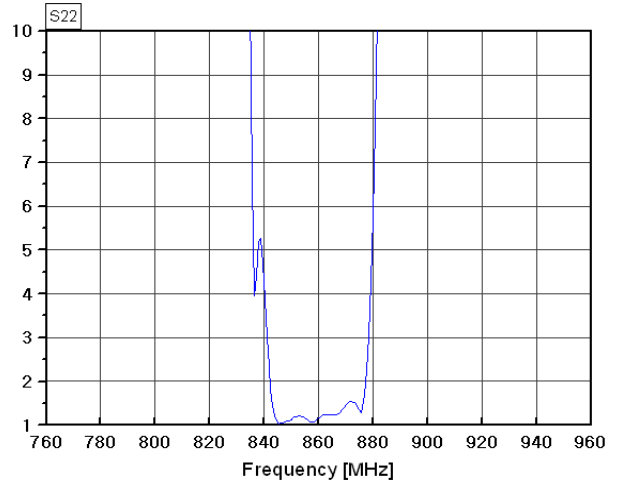
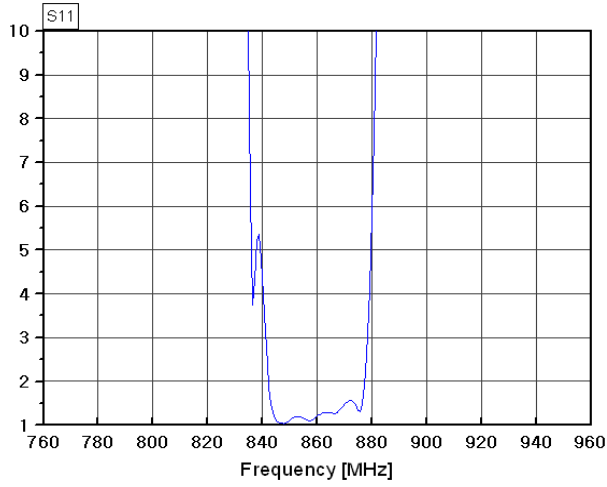


Frequency Performance





VSWR



Smith Chart

