



REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF861.0M-A	iDEN, RF-Rx SAW Filter

## Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
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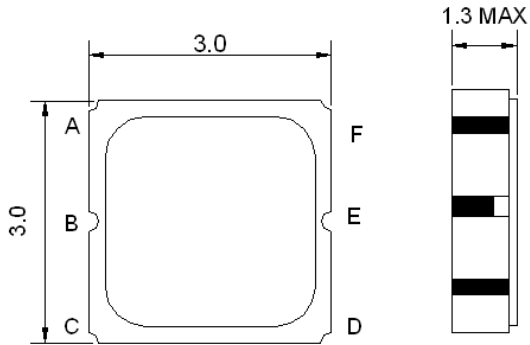
## Notes

- 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)

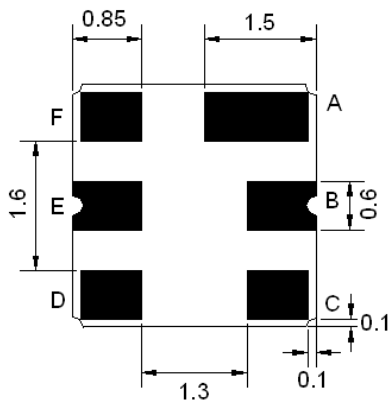




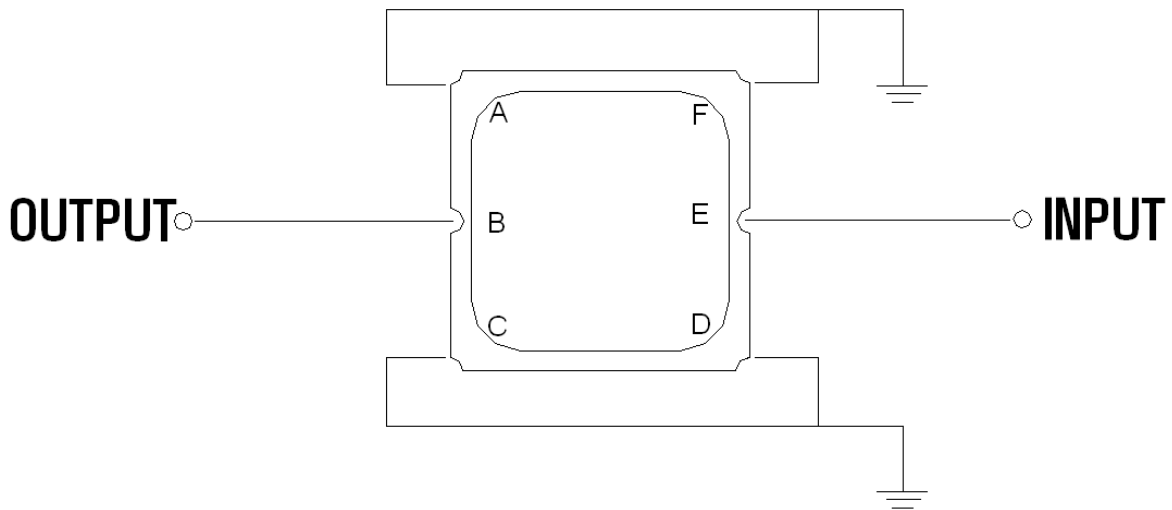
**Mechanical Dimensions (mm)**



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	-

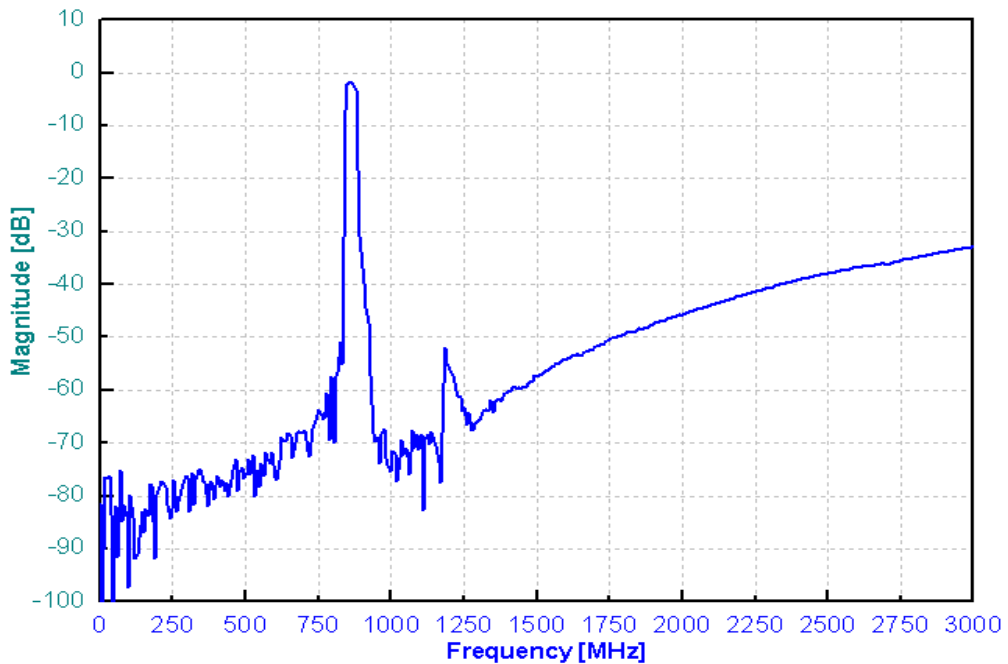
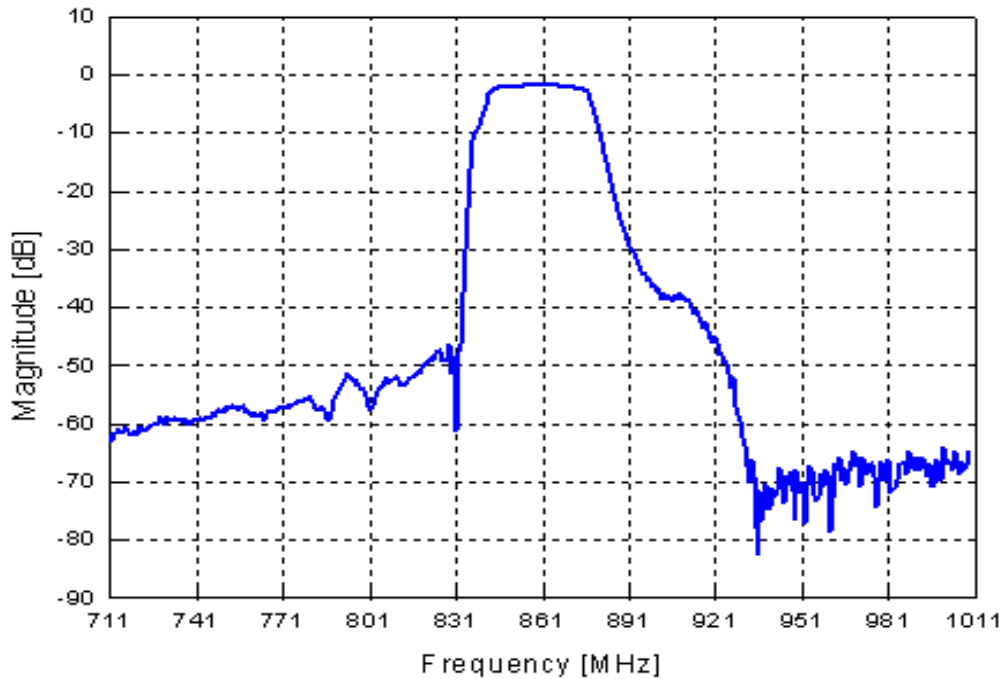
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	861.0	-
Insertion Loss within 851 ~ 871 MHz	dB	-	2.5	3.5
Amplitude Ripple within 851 ~ 871 MHz	dB <sub>p-p</sub>	-	0.6	1.5
Attenuation:				
D.C. ~ 806 MHz	dB	27	49	-
806 ~ 825 MHz	dB	37	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 ~ 871 MHz	-	-	1.6	2.0

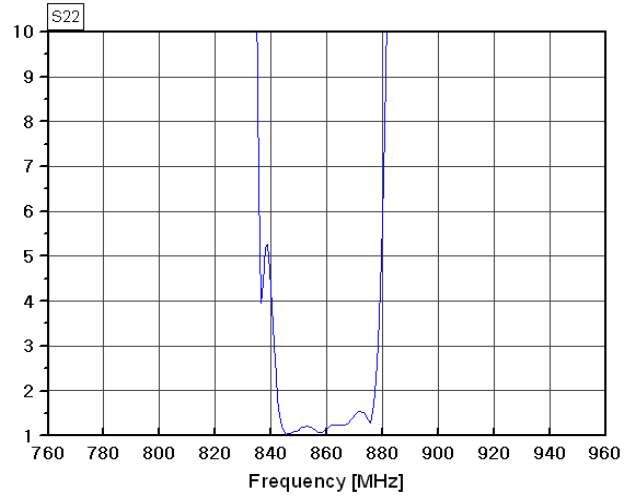
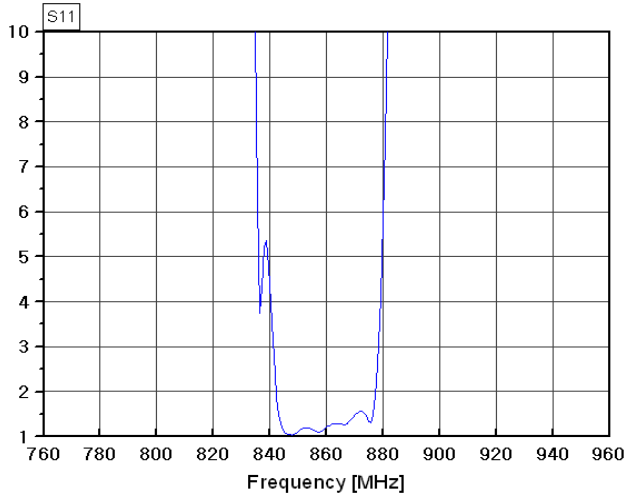


## Frequency Performance





### VSWR



### Smith Chart

