



REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF2140.0M-A02	WCDMA, RF-Rx SAW Filter

**Specification Contents**

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
- o Electrical Specification
- o Frequency Performance
- o VSWR
- o Smith Chart

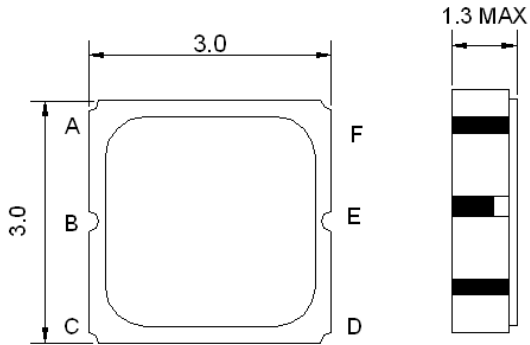
**Notes**

- 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)

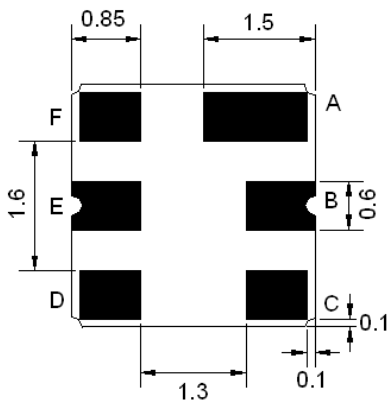




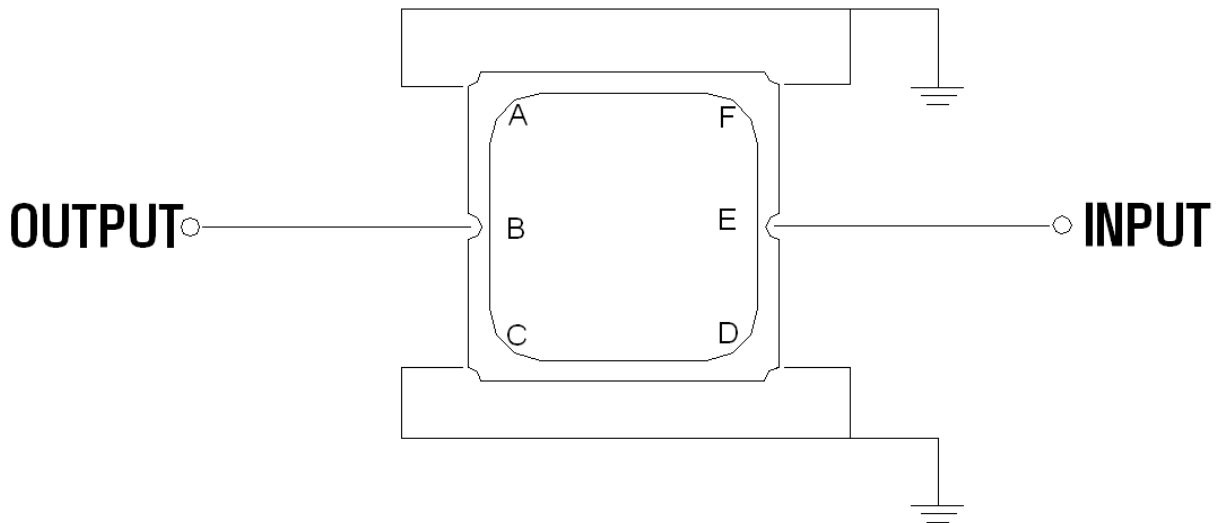
## Mechanical Dimensions (mm)



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



## Test Circuit



Source and Load Impedance: 50  $\Omega$



### Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-

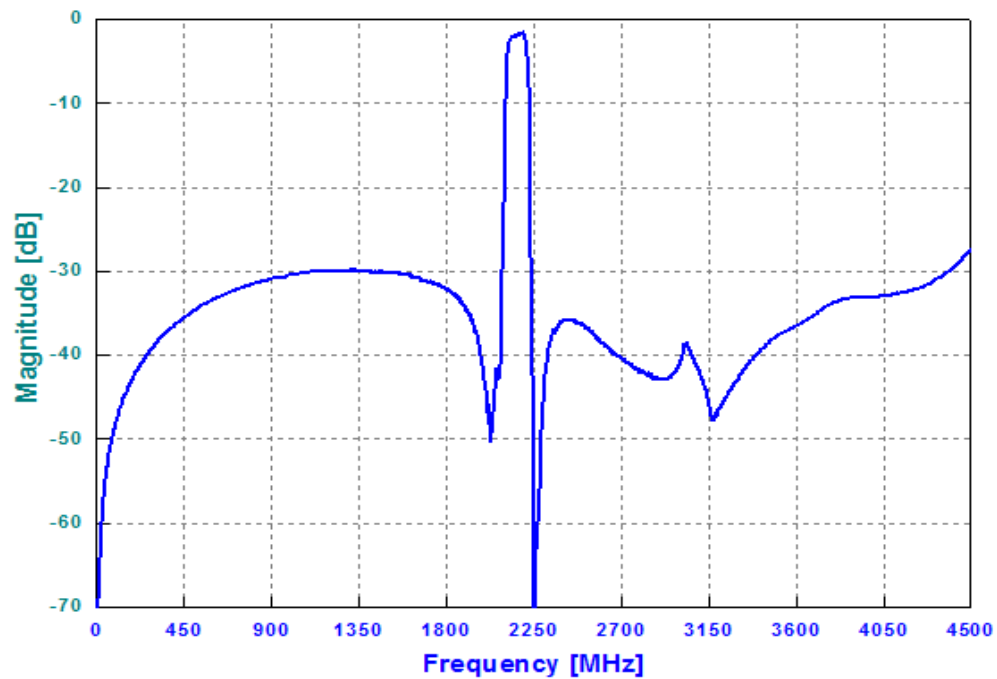
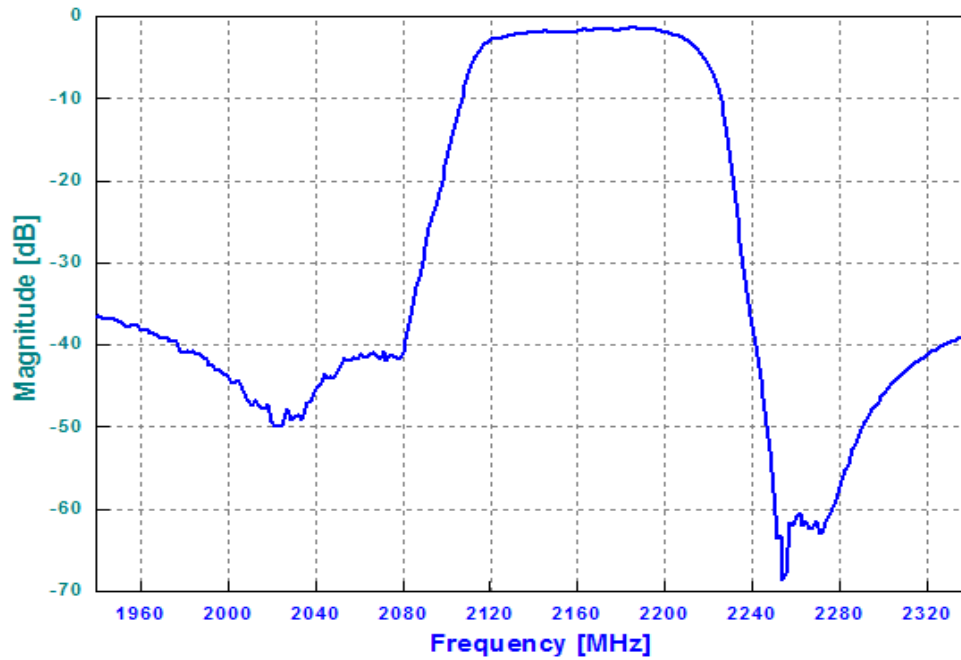
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2140.0	-
Insertion Loss within 2130 ~ 2150 MHz	dB	-	2.3	3.5
Amplitude Ripple within 2130 ~ 2150 MHz	dB <sub>p-p</sub>	-	0.5	1.5
Attenuation:				
D.C. ~ 500 MHz	dB	21	35	-
500 ~ 1900 MHz	dB	20	30	-
1900 ~ 2050 MHz	dB	25	34	-
2070 MHz	dB	38	42	-
2240 ~ 2300 MHz	dB	25	38	-
2300 ~ 4500 MHz	dB	20	28	-
VSWR within 2130 ~ 2150 MHz	-	-	1.7	2.3

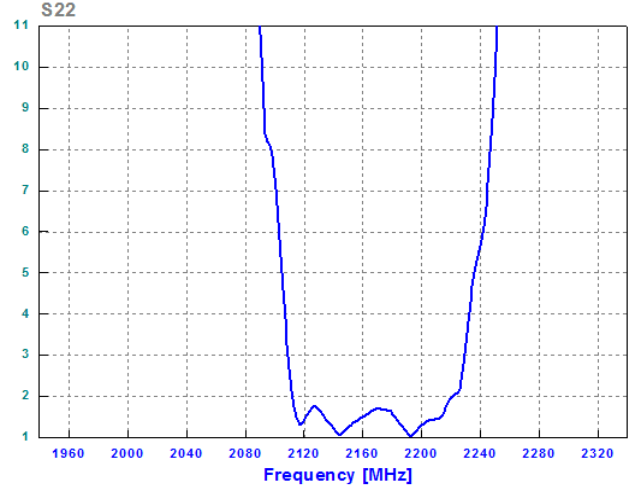
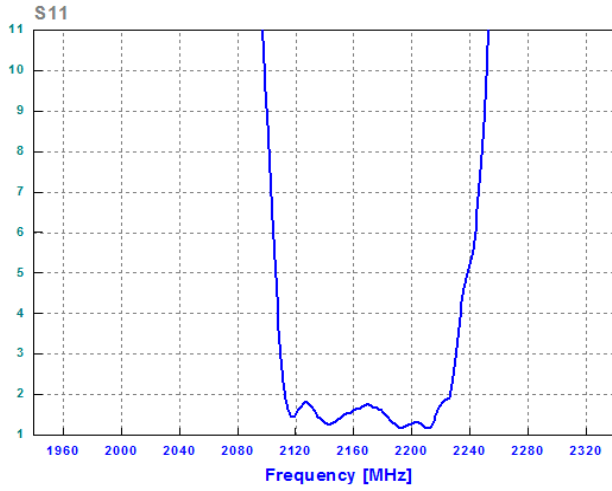


### Frequency Performance





### VSWR



### Smith Chart

