



REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF1950.0M-A	WCDMA, RF-Tx SAW Filter

Specification Contents

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

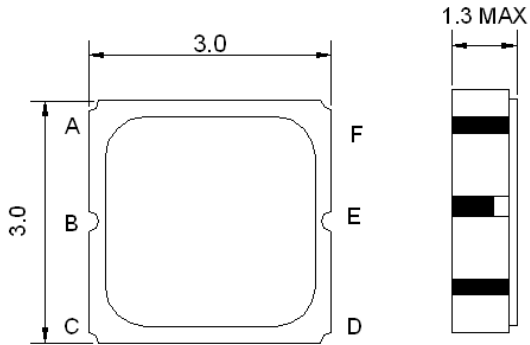
Notes

- 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)

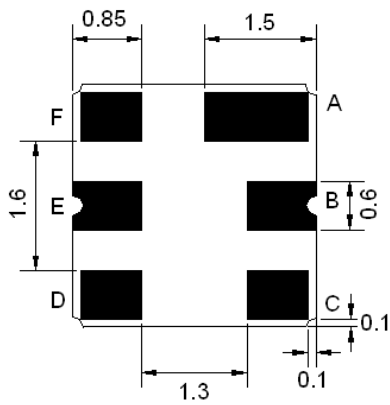




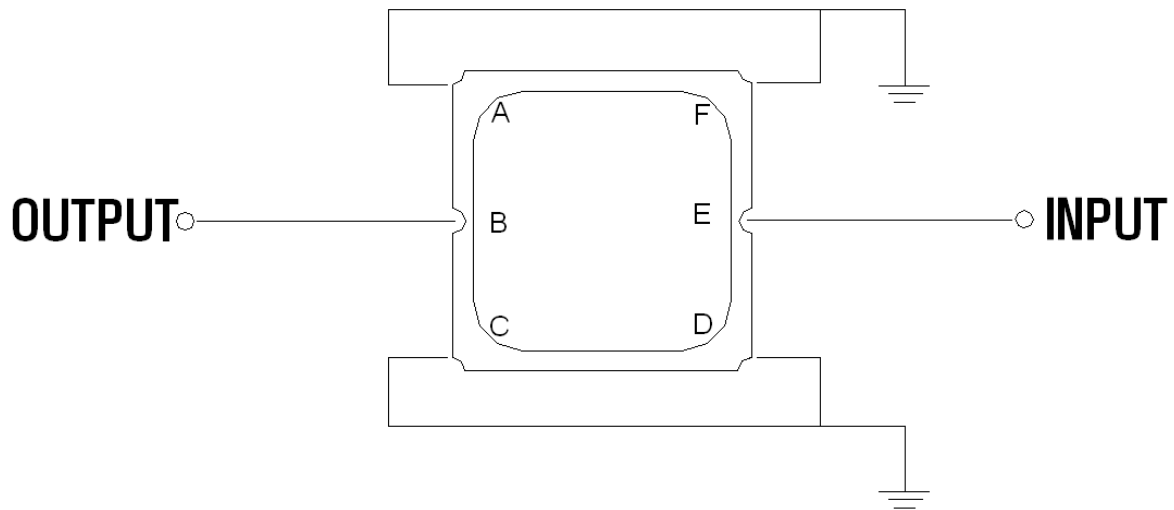
Mechanical Dimensions (mm)



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



Test Circuit



Source and Load Impedance: 50 Ω

**Maximum Ratings**

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

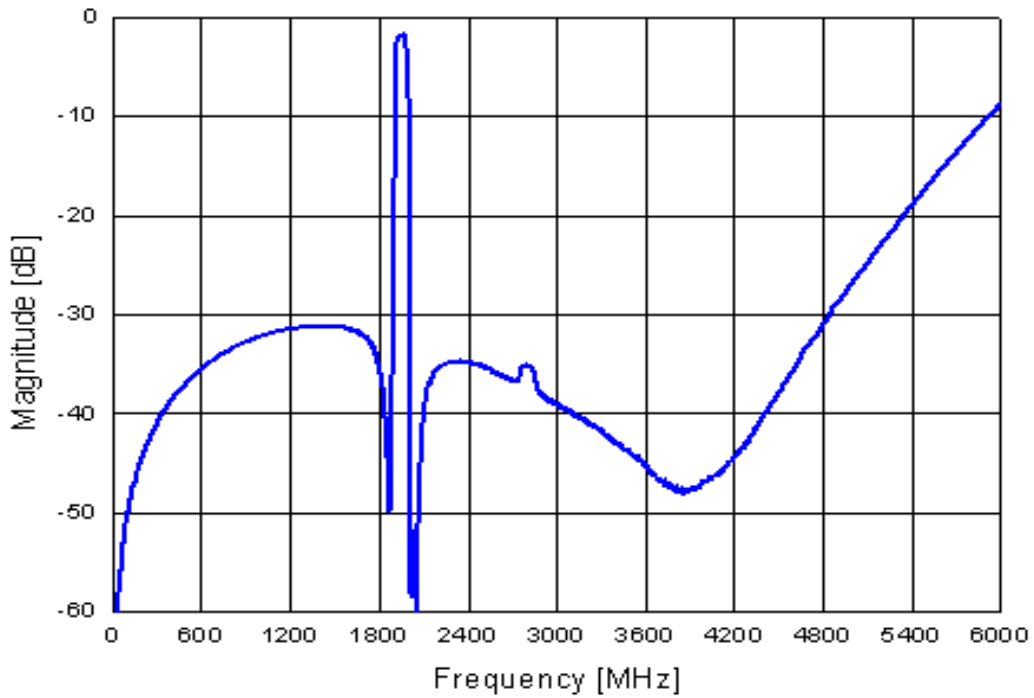
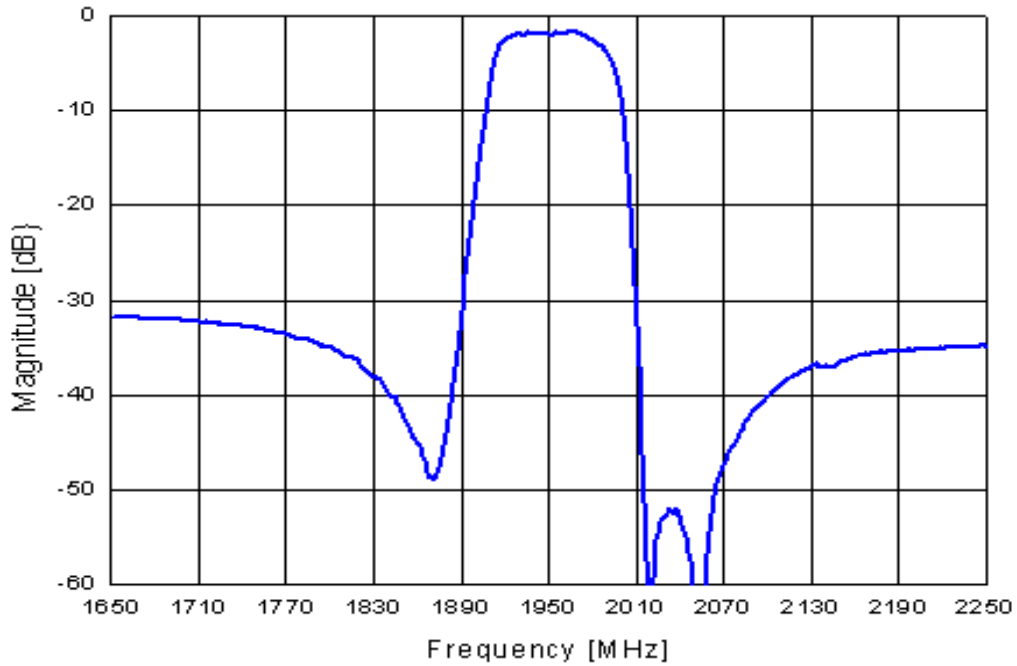
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1950	-
Insertion Loss within 1920 ~ 1980 MHz	dB	-	2.8	4.0
Amplitude Ripple within 1920 ~1980 MHz	dB _{p-p}	-	1.4	2.4
Attenuation:				
D.C. ~ 1840 MHz	dB	20	31	-
1840 ~ 1900 MHz	dB	10	17	-
2000 ~ 2030 MHz	dB	4.5	9	-
2030 ~ 2060 MHz	dB	20	50	-
2060 ~ 5000 MHz	dB	22	26	-
VSWR within 1920 ~ 1980 MHz	-	-	1.9	2.4

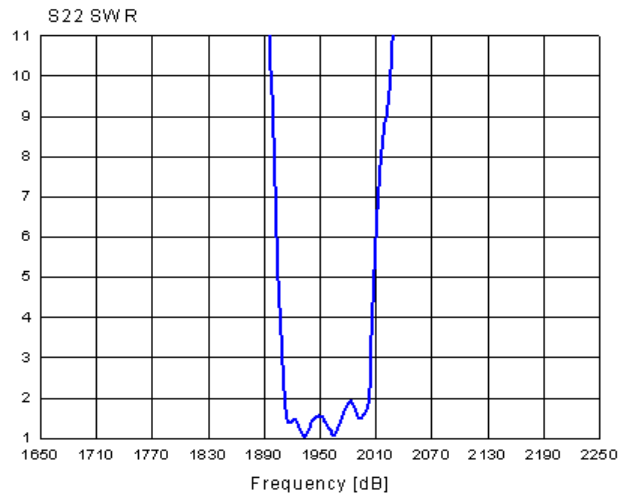
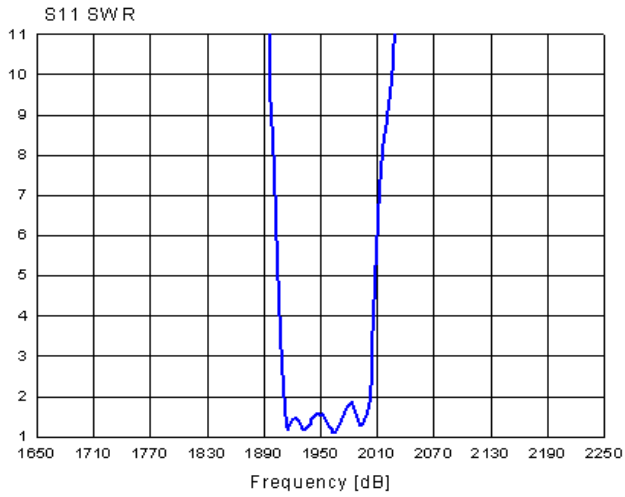


Frequency Performance

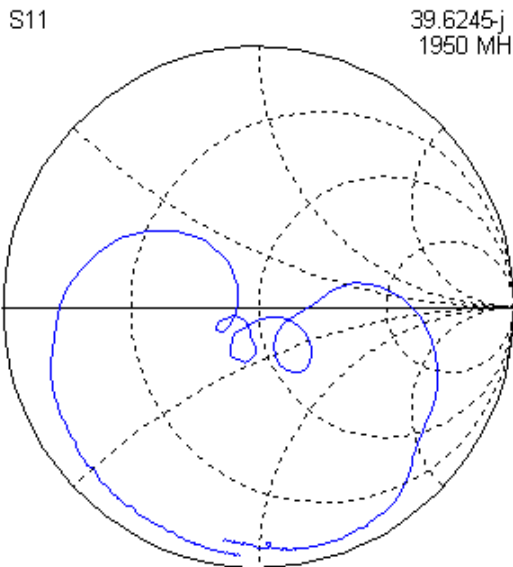




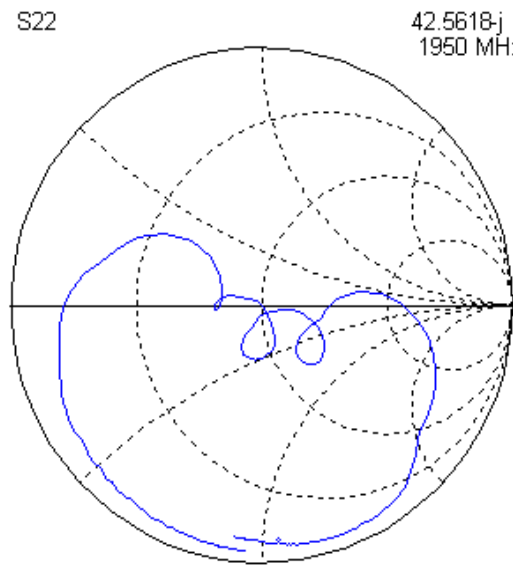
VSWR



Smith Chart



39.6245-j 16.6081
1950 MHz



42.5618-j 18.3381
1950 MHz