



PRODUCT SPECIFICATION

REV A January 2010


Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF1209.5M-A	GPS, RF SAW Filter

Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
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- o Frequency Performance
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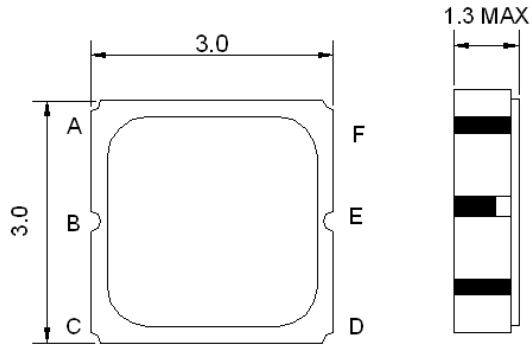
Notes

- 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)

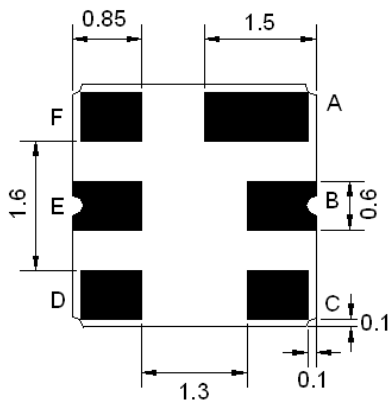




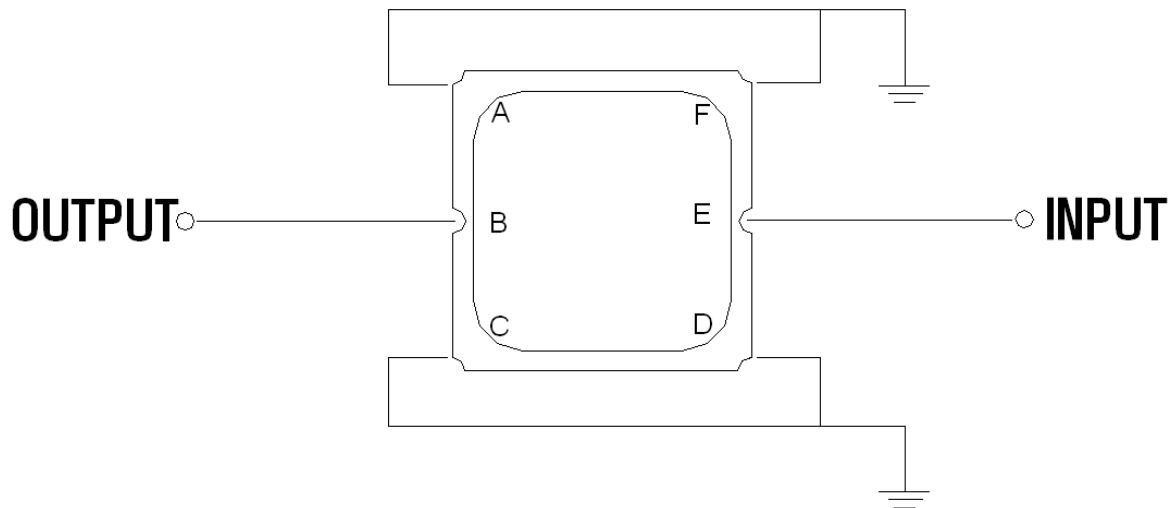
Mechanical Dimensions (mm)



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	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-

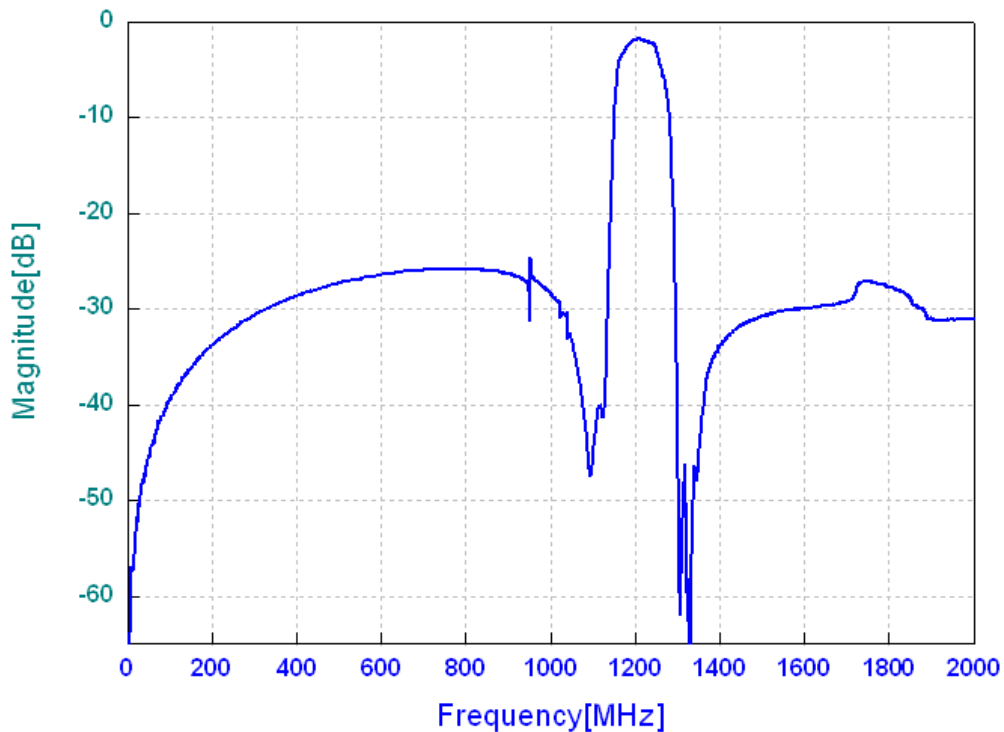
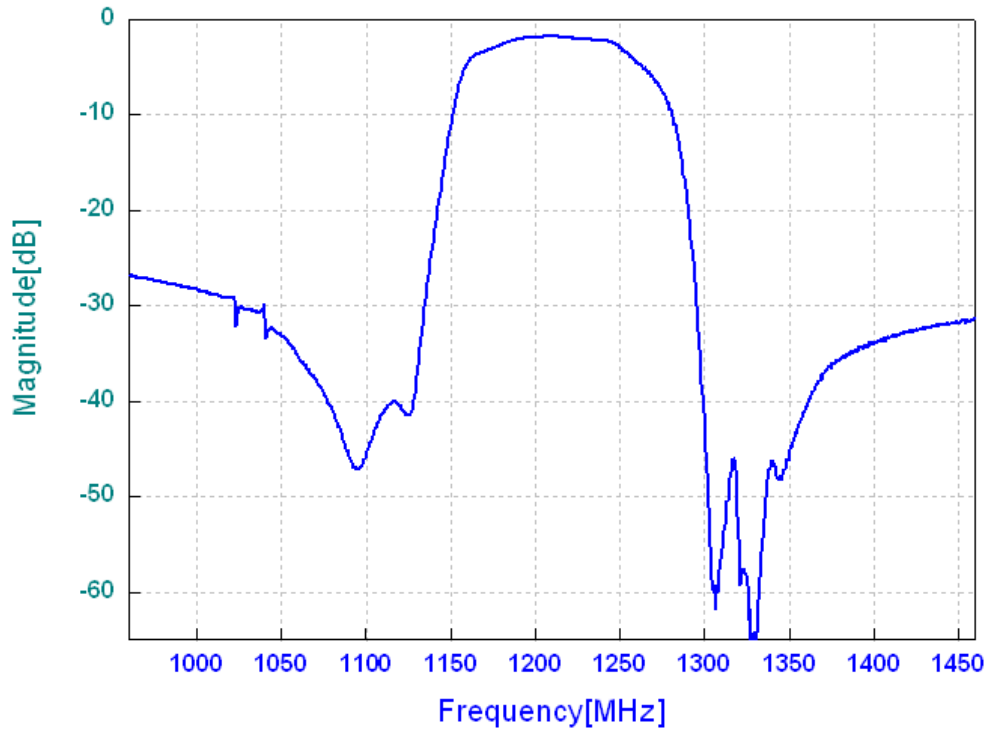
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1209.5	-
Insertion Loss within 1166.0 ~ 1253.0 MHz	dB	-	3.9	5.0
Amplitude Ripple within 1166.0 ~ 1253.0 MHz	dB _{p-p}	-	1.8	3.0
Group Delay Ripple within 1166.0~1253.0 MHz	ns _{p-p}	-	7	12
Return Loss within 1166.0~1253.0 MHz	dB	8	12	-
Attenuation:				
D.C ~ 1000.0 MHz	dB	23	25	-
1297.0 ~ 2000.0 MHz	dB	25	28	-

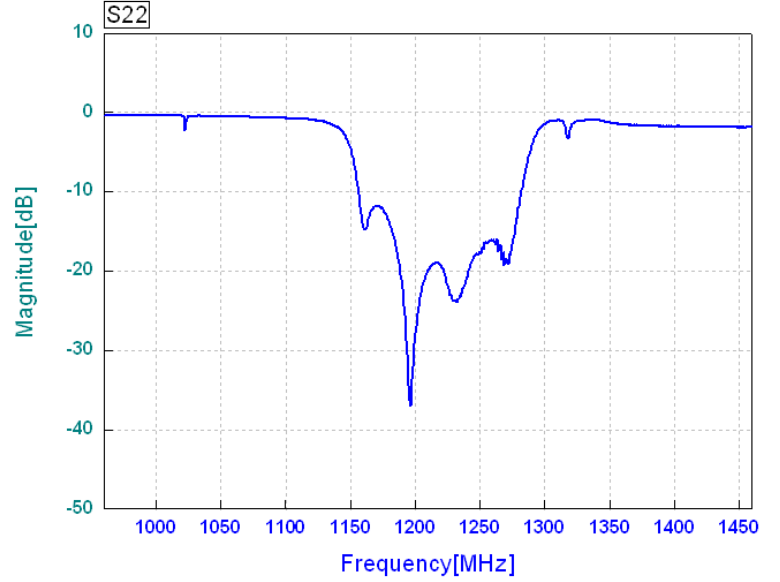
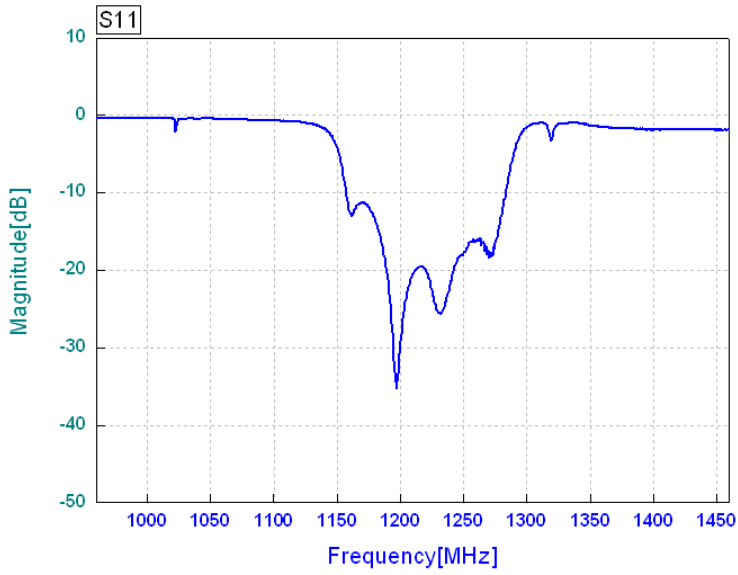


Frequency Performance





VSWR



Smith Chart

