



PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF902.5M-B	GSM, RF SAW Filter

Specification Contents

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

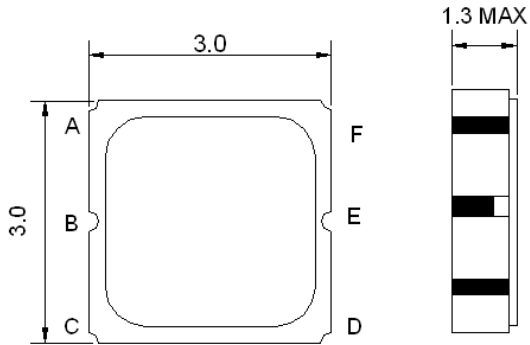
Notes

- 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)

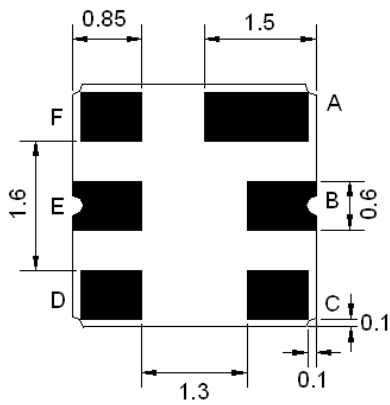




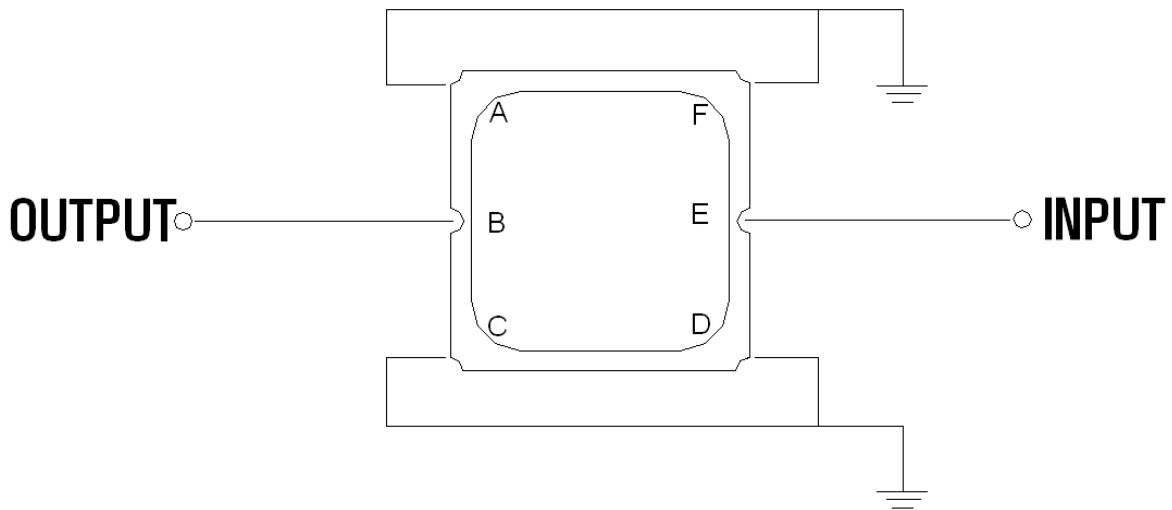
Mechanical Dimensions (mm)



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	-25	-	+75
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	-

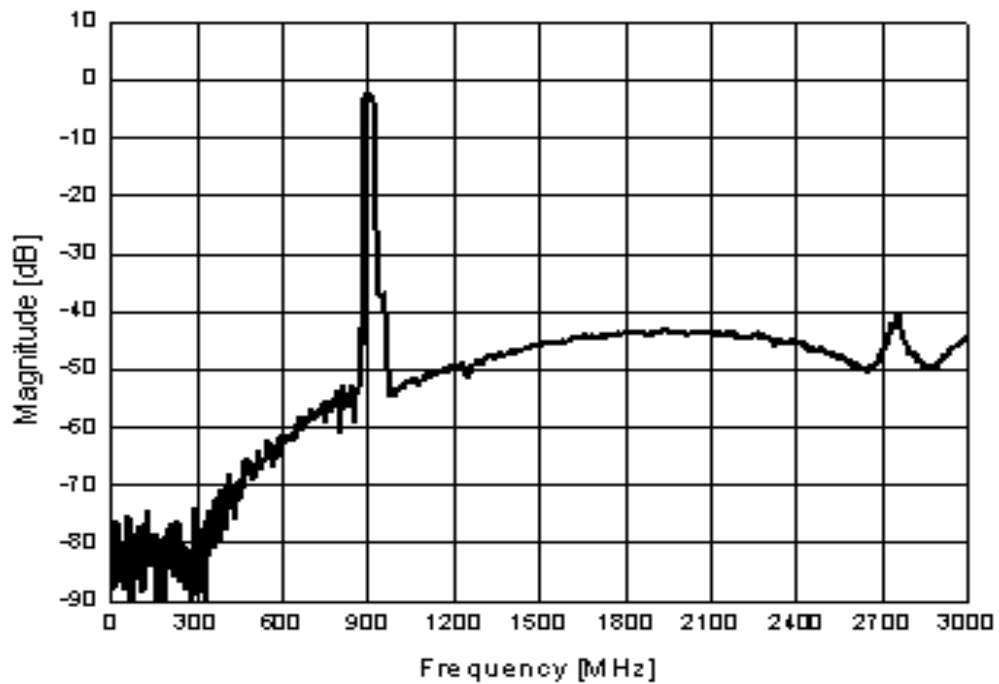
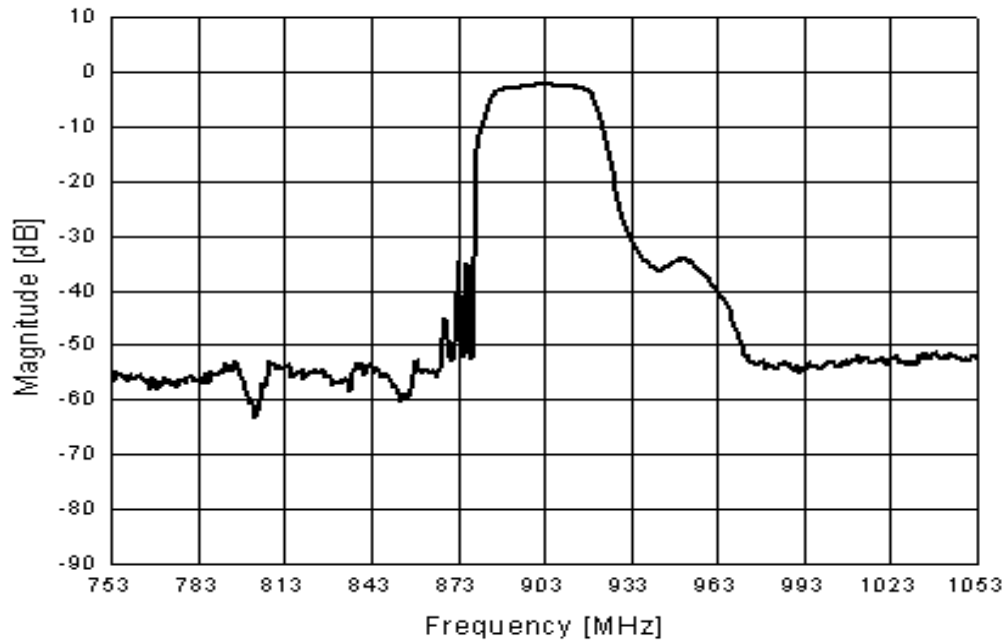
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	902.5	-
Insertion Loss (890~915 MHz)	dB	-	3.0	3.5
Amplitude Ripple within 890~915 MHz	dB _{p-p}	-	0.8	1.5
Attenuation:				
D.C. ~ 845 MHz	dB	48	52	-
845 ~ 870 MHz	dB	40	45	-
925 ~ 935 MHz	dB	5	15	-
935 ~ 980 MHz	dB	25	32	-
980 ~ 1200 MHz	dB	45	49	-
1200 ~ 3000 MHz	dB	25	38	-
VSWR (890~915 MHz)	-	-	1.8	2.3

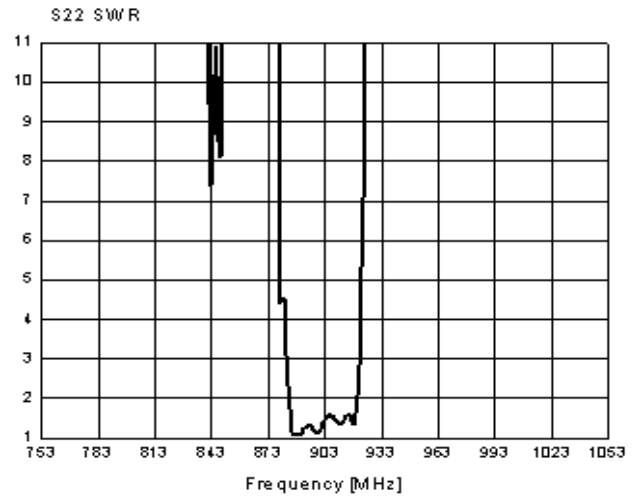
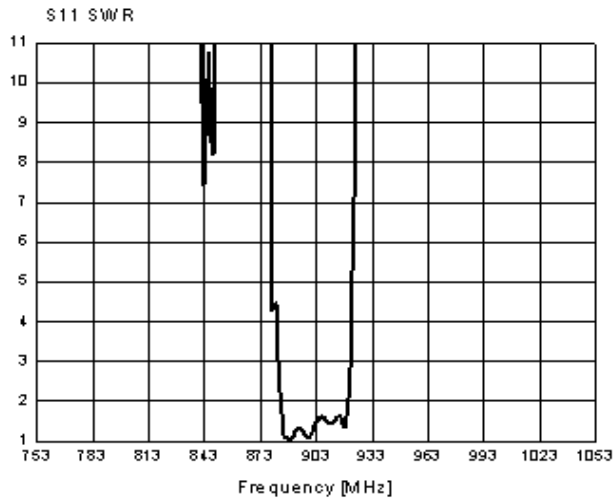


Frequency Performance





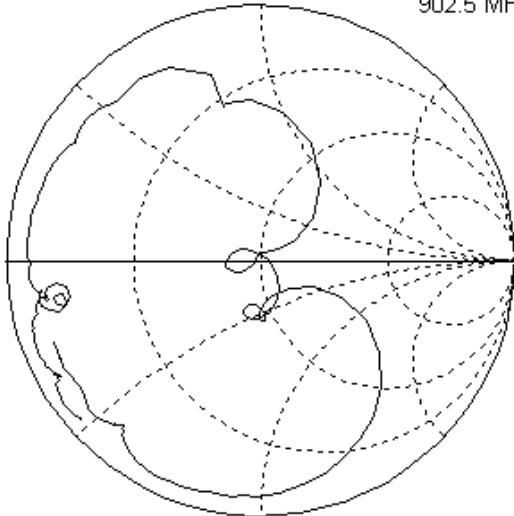
VSWR



Smith Chart

S11

51.7214-j 19.5584
902.5 MHz



S22

53.2468-j 19.0515
902.5 MHz

