



# PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
802-RF947.5M-B	GSM, RF SAW Filter

## Specification Contents

- o Mechanical Dimensions
- o Test Circuit
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- o Frequency Performance
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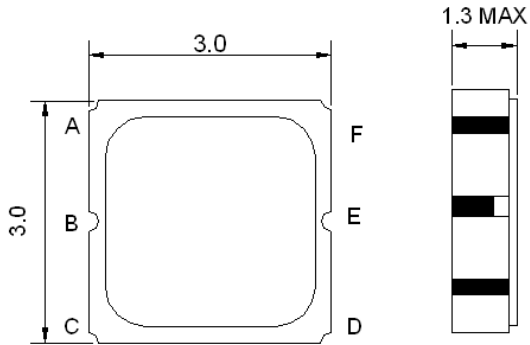
## Notes

- 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)

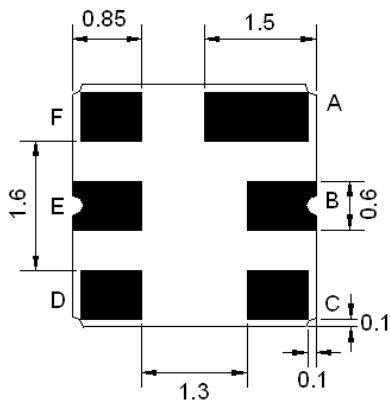




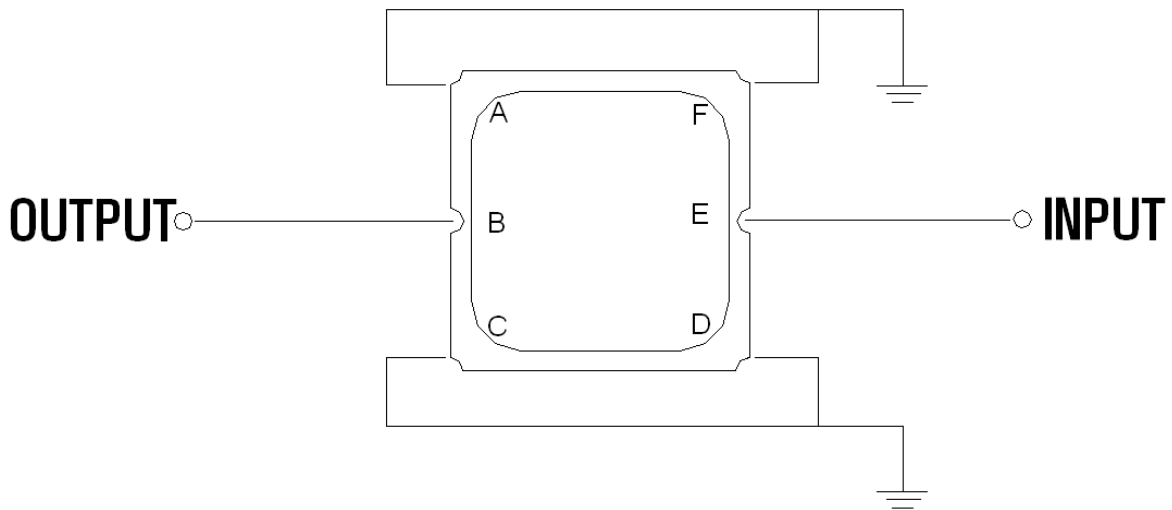
**Mechanical Dimensions (mm)**



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



**Test Circuit**



Source and Load Impedance: 50  $\Omega$



## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
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	-

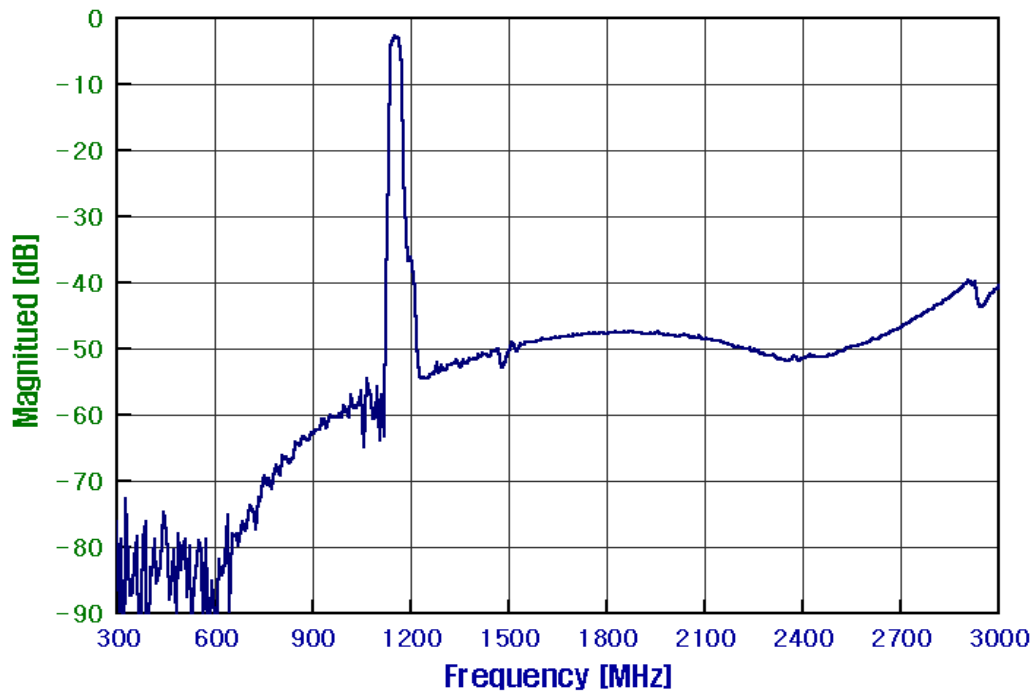
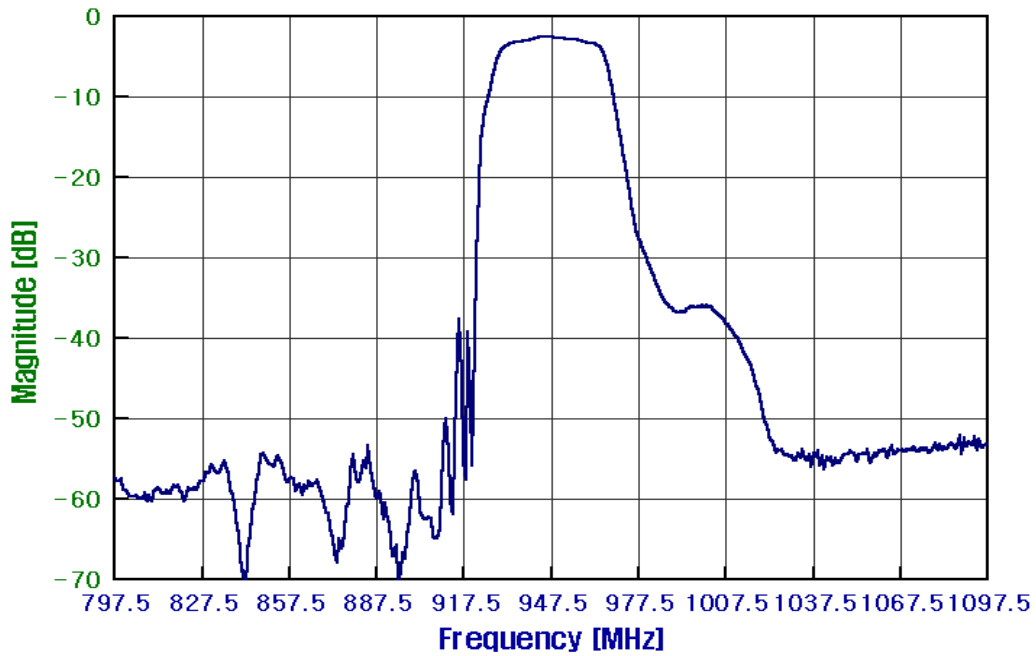
Notes: No Matching Network (Ref. Testing Environment Circuit as shown above).

## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	947.5	-
Insertion Loss 935.0~960.0 MHz	dB	-	3.2	4.0
Amplitude Ripple within 935.0~960.0 MHz	dB <sub>p-p</sub>	-	0.8	1.5
Attenuation:				
D.C. ~ 870.0 MHz	dB	45	53	-
870.0 ~ 915.0 MHz	dB	40	45	-
980.0 ~ 985.0 MHz	dB	28	32	-
985.0 ~ 1025.0MHz	dB	29	34	-
1025.0 ~ 1500.0 MHz	dB	42	48	-
1500.0 ~ 2000.0 MHz	dB	40	47	-
2000.0 ~ 3000.0 MHz	dB	35	39	-
VSWR (935.0~960.0 MHz)	-	-	1.7	2.0

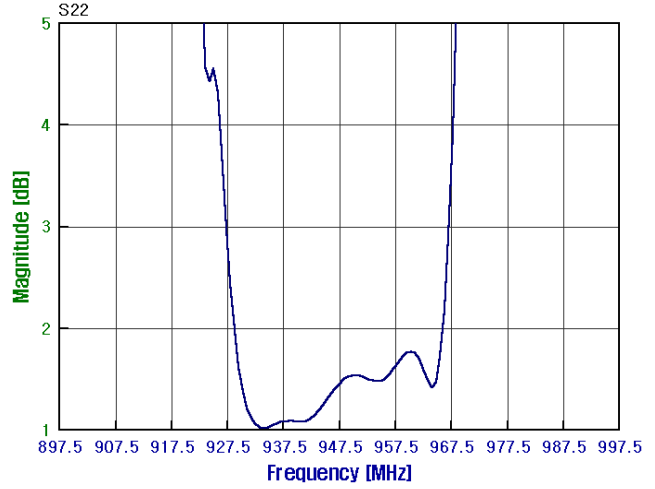
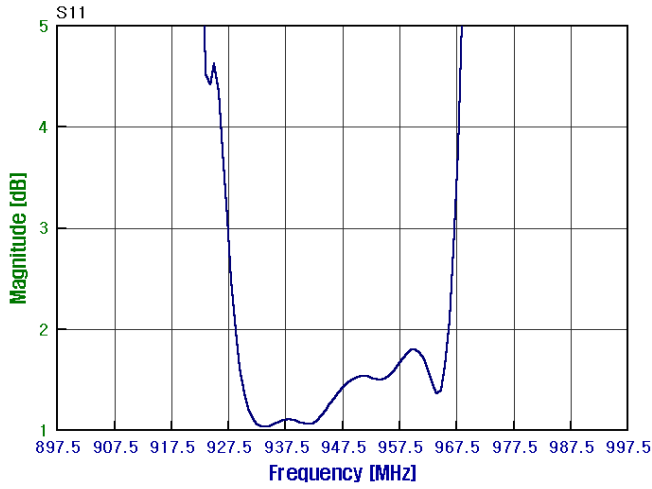


### Frequency Performance





### VSWR



### Smith Chart

