



# PRODUCT SPECIFICATION

REV A January 2010

Oscilent Controlled Document

Ordering Code / Part Number	Product Description
861-RF942.5M-H	EGSM, Balanced RF SAW Filter

## Specification Contents

- o Mechanical Dimensions
- o Test Circuit
- o Maximum Ratings
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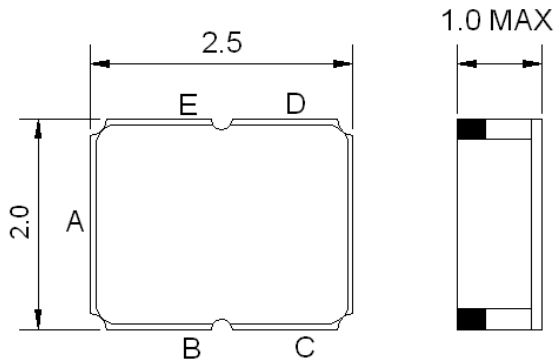
## Notes

- 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)

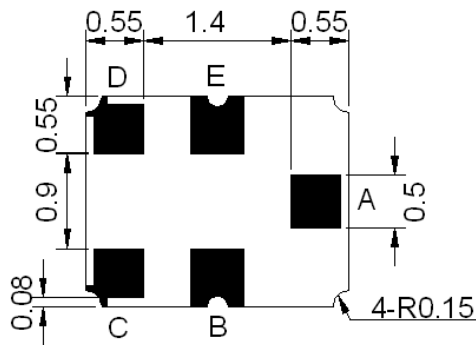




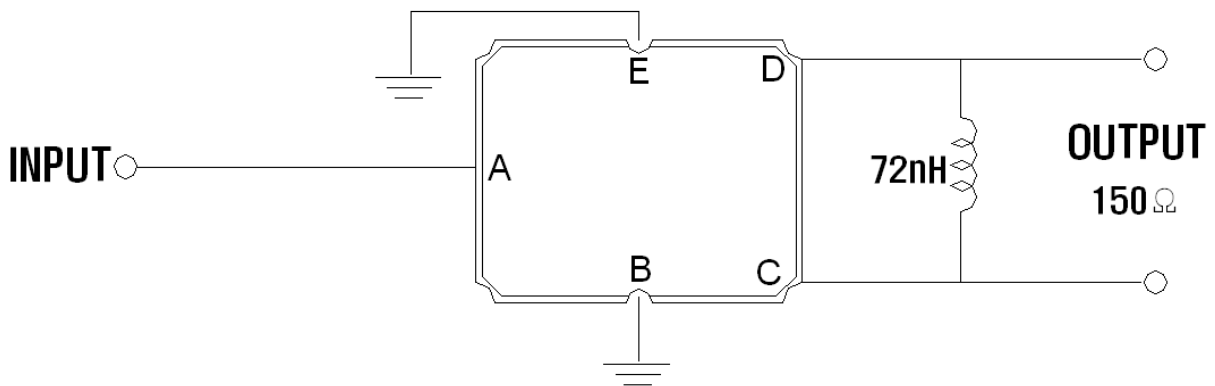
## Mechanical Dimensions (mm)



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



## Test Circuit





## Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (balanced ended) <sup>(1)</sup>	Ω//nH	-	150//72	-

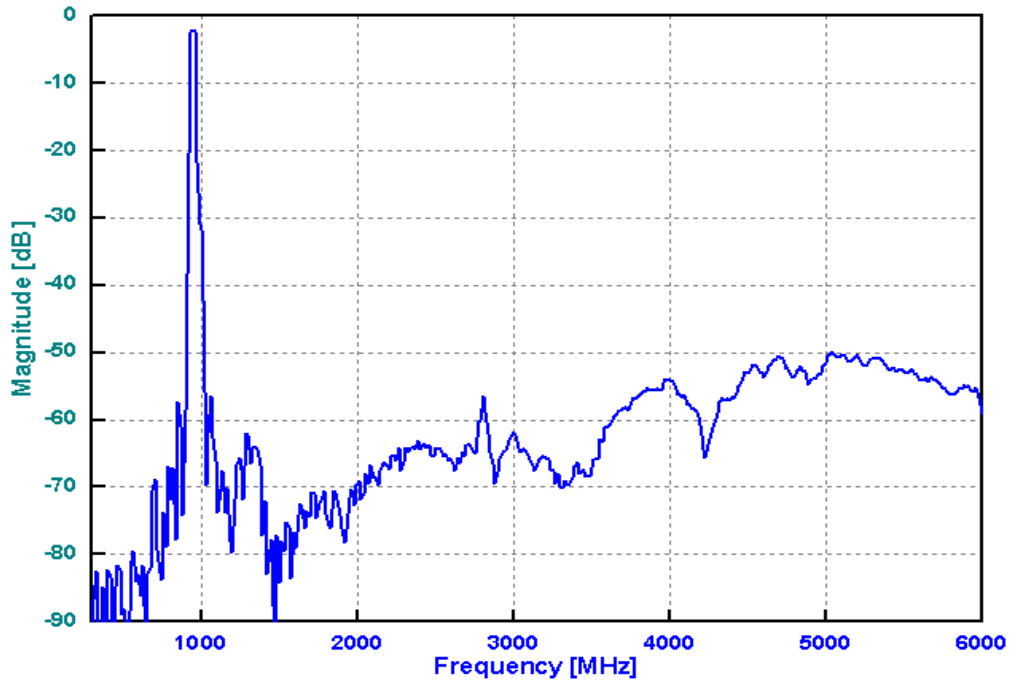
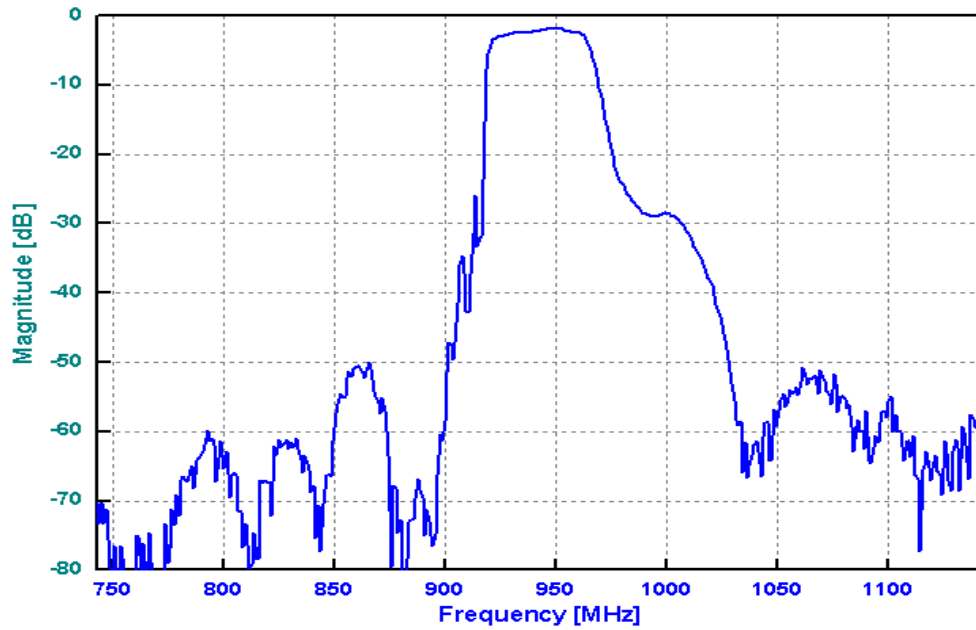
Notes: (1) With Matching Network

## Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	942.5	-
Insertion Loss within 925~960MHz	dB	-	2.8	4.0
Amplitude Ripple within 925~960MHz	dB <sub>p-p</sub>	-	1.0	2.4
Input/Output VSWR within 925~960 MHz	-	-	1.8	2.5
Attenuation:				
D.C. ~ 880 MHz	dB	50	52	-
880 ~ 905 MHz	dB	30	44	-
905 ~ 915 MHz	dB	10	27	-
980 ~ 1050 MHz	dB	21	27	-
1050 ~ 6000 MHz	dB	50	54	-
Symmetry in band (925~960 MHz)			-	
Output Amplitude balance( S31 / S21 )	dB	-1.3	0	1.2
Output phase balance(Φ(s31)-Φ(s21)+180)	degree	-10	0	10

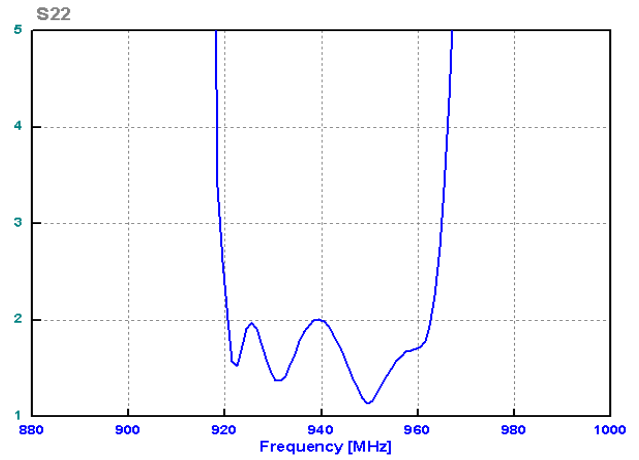
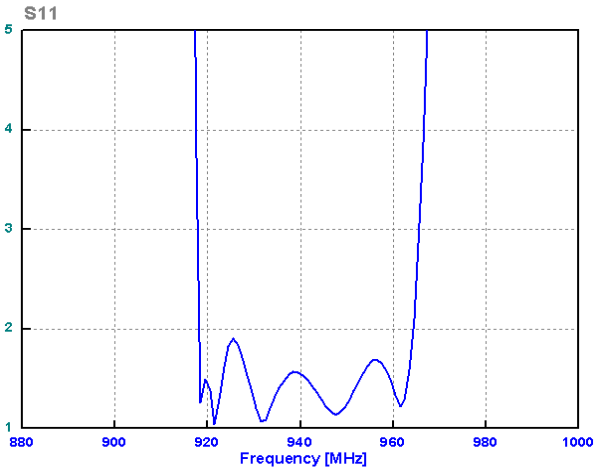


## Frequency Performance





## VSWR



## Smith Chart

