

# RADITEK INC.

## Surface Acoustic Wave (SAW) Band Pass Filter 902-928MHz, Surface Mount RSAW-BPF-902-928M-S

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Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	915.0	-
Insertion Loss (902 ~ 928 MHz)	dB	-	2.5	3.0
Source Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Operating Temperature Range	°C	-30	-	+65
Amplitude Ripple within 902 ~ 928 MHz	dB <sub>p-p</sub>	-	0.7	1.5
Attenuation:				
<u>D.C. ~ 800 MHz</u>	dB	50	60	-
<u>800 ~ 845 MHz</u>	dB	50	55	-
<u>845 ~ 880 MHz</u>	dB	45	50	-
<u>950 ~ 990 MHz</u>	dB	26	31	-
<u>990 ~ 1200 MHz</u>	dB	50	58	-
<u>1200 ~ 2000 MHz</u>	dB	30	38	-
<u>VSWR (925 ~ 960 MHz)</u>	-	-	1.45	2.0
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	20
Package type & size		P		
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.3

**Notes :** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

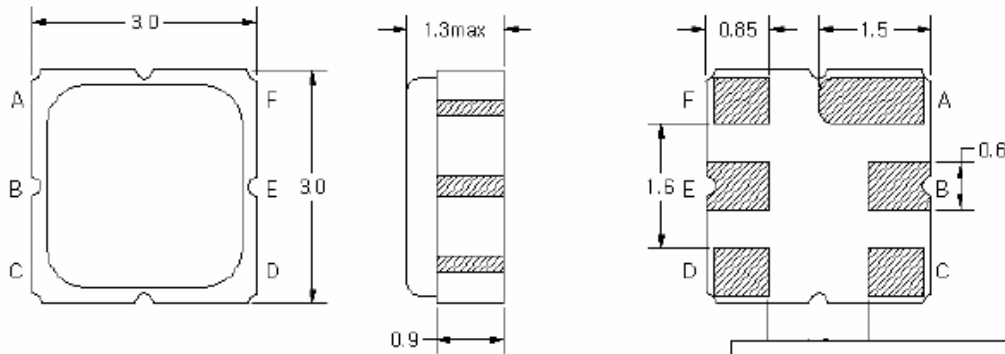
Those impedances could be modified with different impedance values and/or structures, if necessary

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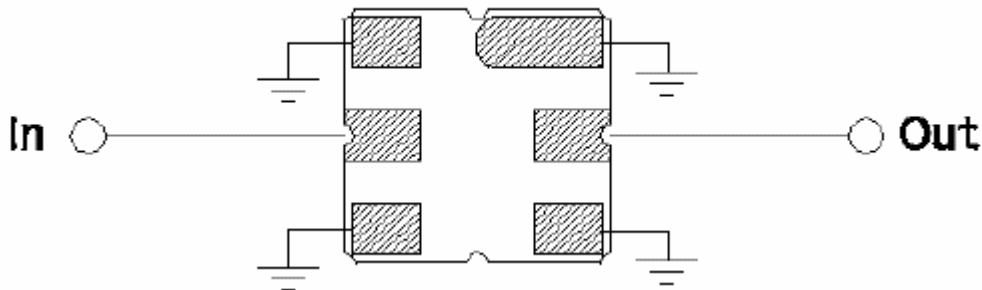
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### PACKAGE DRAWING



PIN Descriptions :  
IN - E, OUT - B,  
GROUND - A,C,D,F

### TESTING ENVIRONMENT



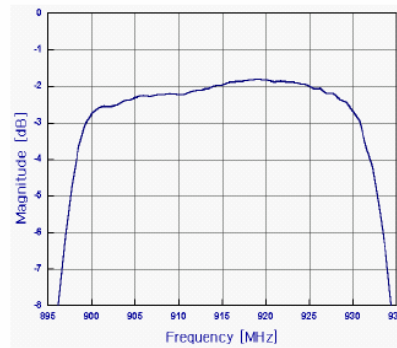
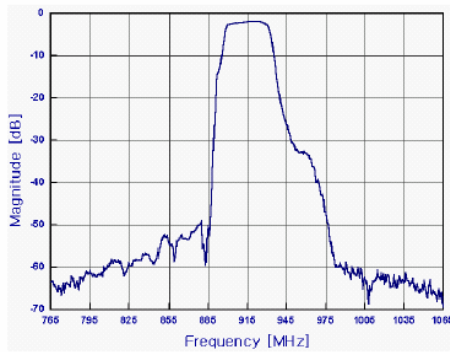
Source & Load Impedance: 50  $\Omega$

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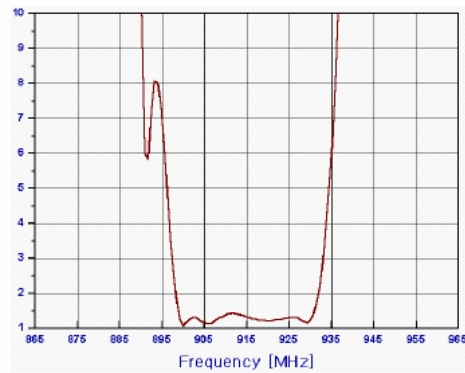
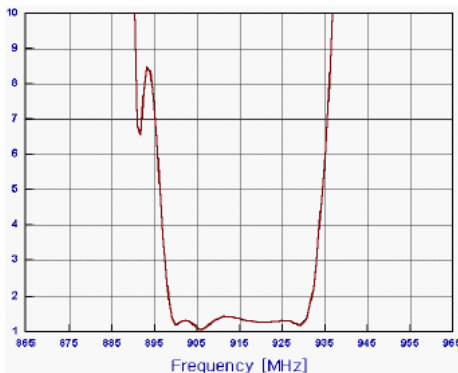
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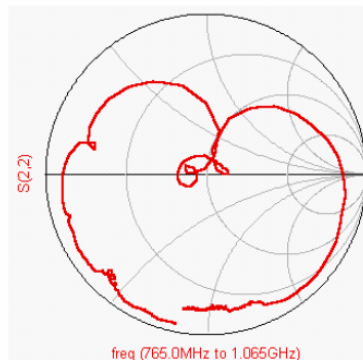
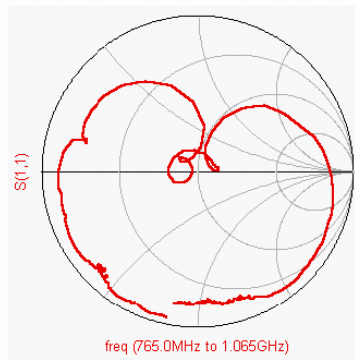
### FREQUENCY RESPONSE



### VSWR



### SMITH CHART



RSAW-BPF-902-928M-S-k

Specifications may be subject to change

09/26/06

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