



Total Solution Provider in Saw Device

SA953BM

RF Band Pass SAW Filter
Revision 0: February 2007



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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□ Electrical Characteristics

Maximum Ratings

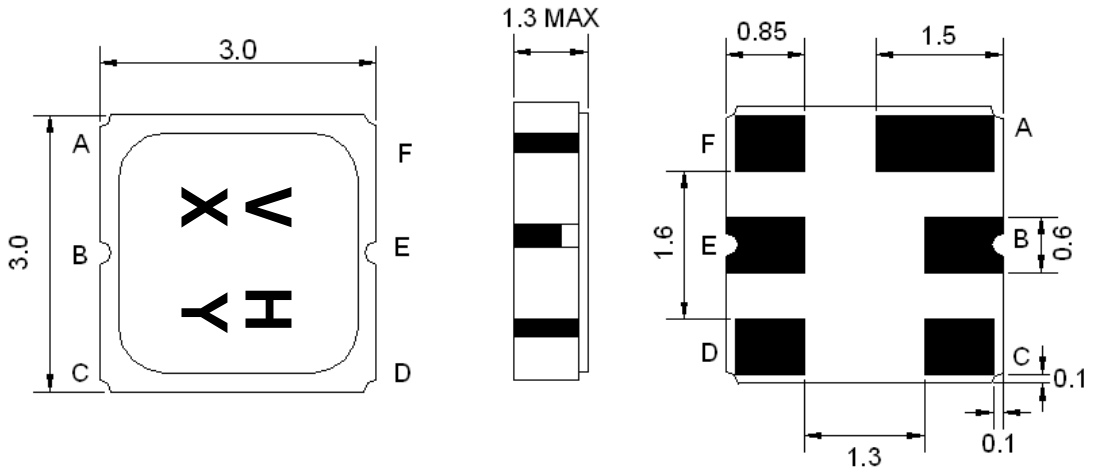
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	-	+60
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	953.0	-
Insertion Loss within 952.0 ~ 954.0 MHz	dB	-	3.9	5.0
Amplitude Ripple within 952.0 ~ 954.0 MHz	dB _{p-p}	-	0.5	1.5
Attenuation:				
0.3 ~ 873.0 MHz	dB	50	55	-
873.0 ~ 936.0 MHz	dB	43	47	-
936.0 ~ 945.0 MHz	dB	10	35	-
1000.0 ~ 1500.0 MHz	dB	30	40	-
1500.0 ~ 2000.0 MHz	dB	35	42	-
VSWR within 952.0 ~ 954.0 MHz	-	-	1.4	2.0

Notes : (1) No Matching Network (Ref. Testing Environment Circuit as shown below).

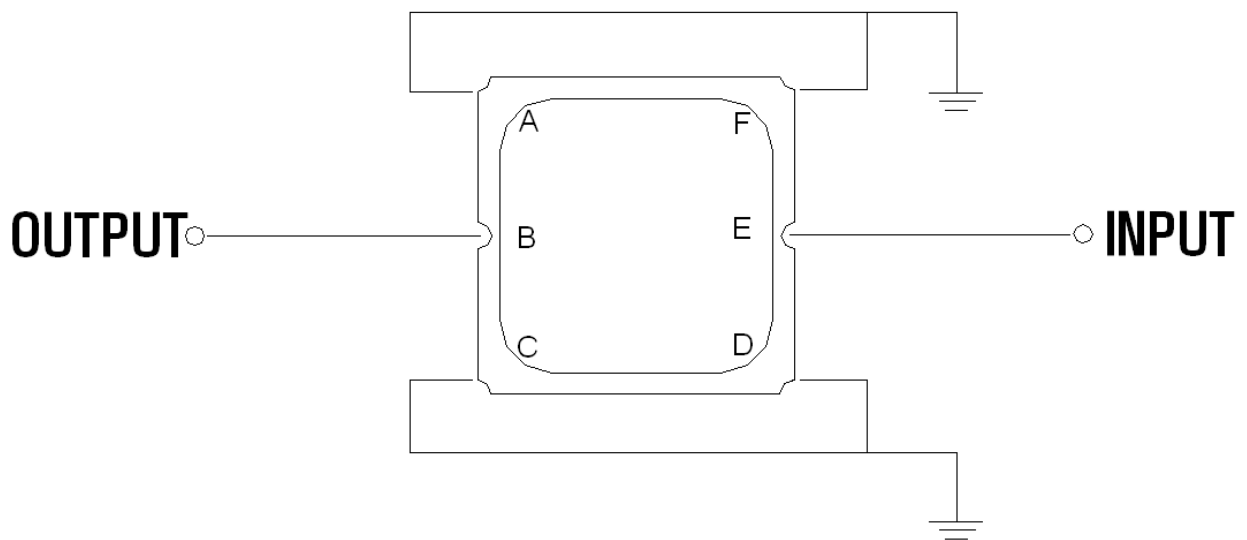
Package Dimensions



Marking Descriptions	
V	Wireless Application
H	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

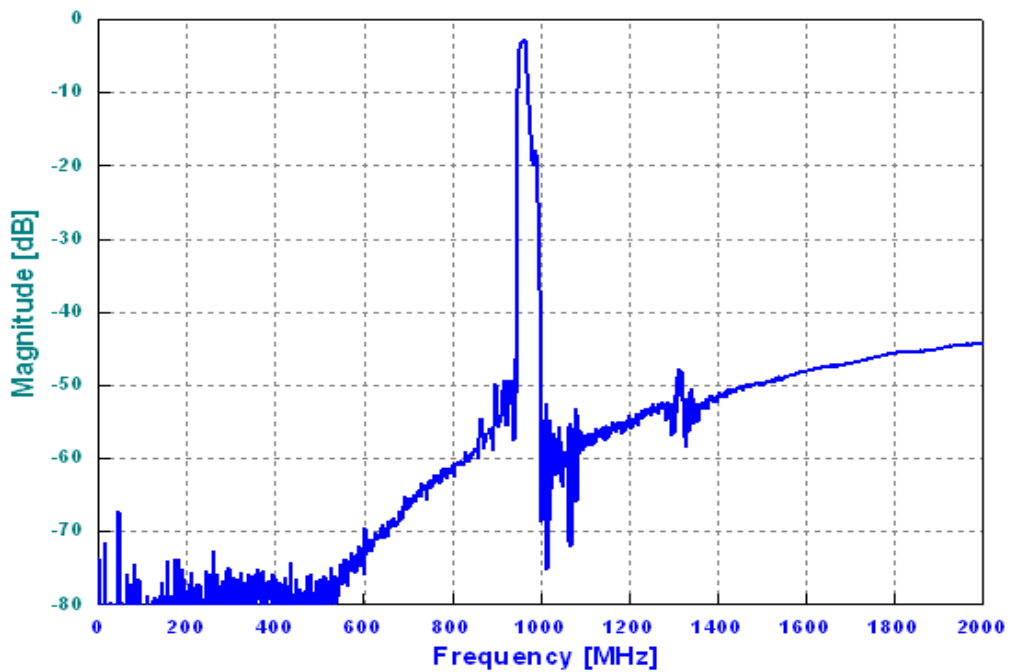
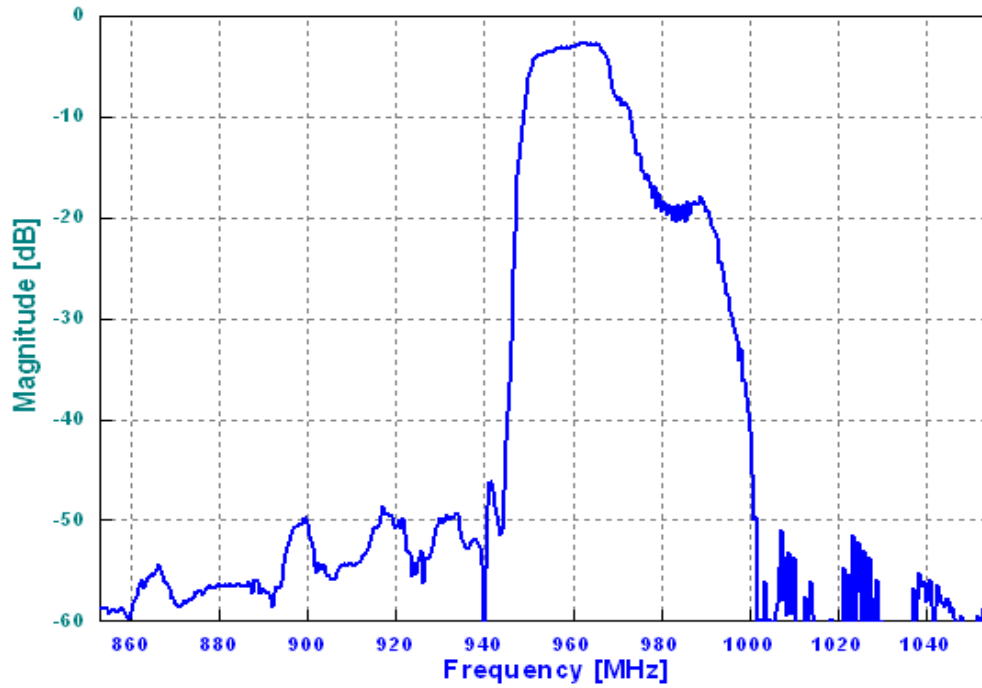
Testing Environment



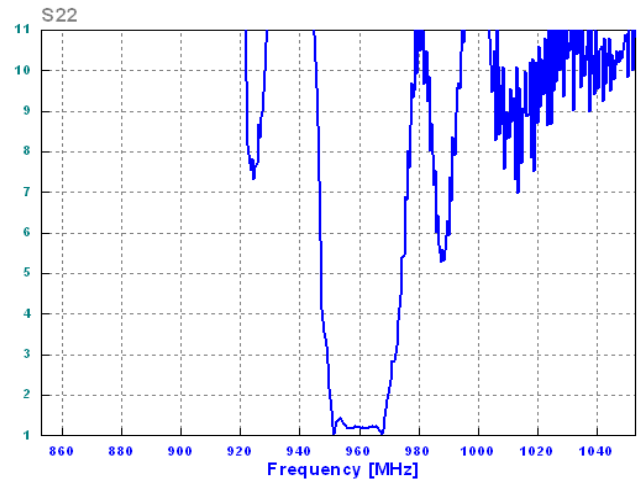
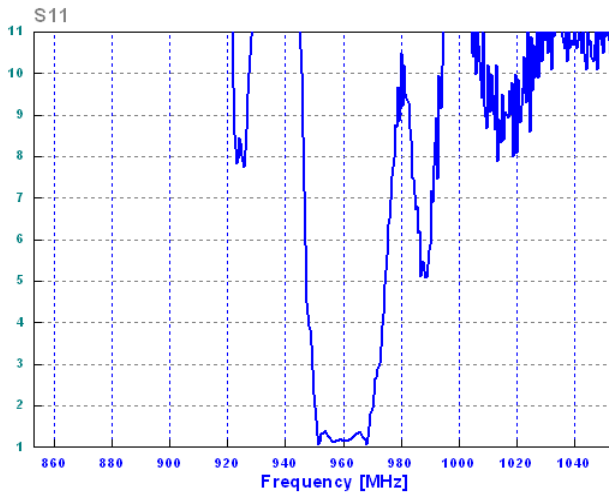
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

