



Total Solution Provider in Saw Device

SA947BM

GSM, RF SAW Filter
Revision 0: January 2002



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

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□ Electrical Characteristics

Maximum Ratings

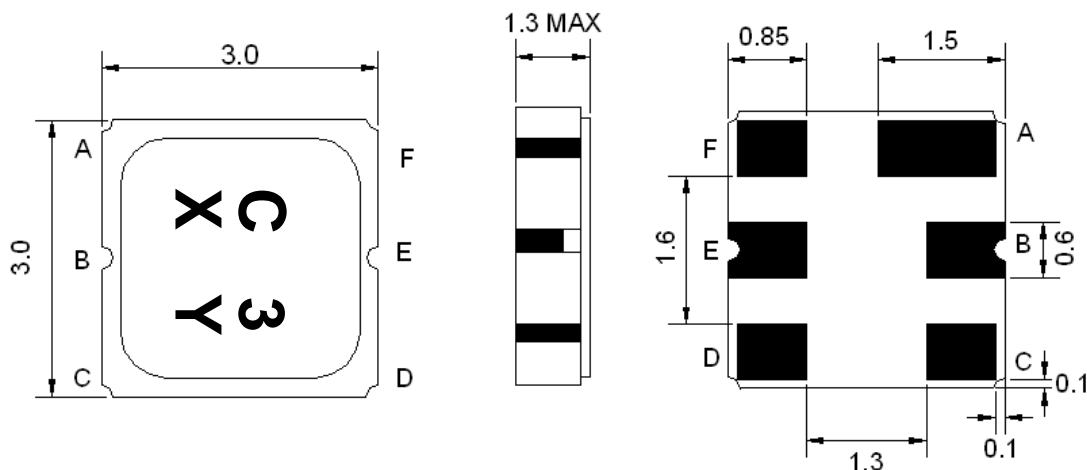
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	947.5	-
Insertion Loss 935.0~960.0 MHz	dB	-	3.2	4.0
Amplitude Ripple within 935.0~960.0 MHz	dB _{p-p}	-	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

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

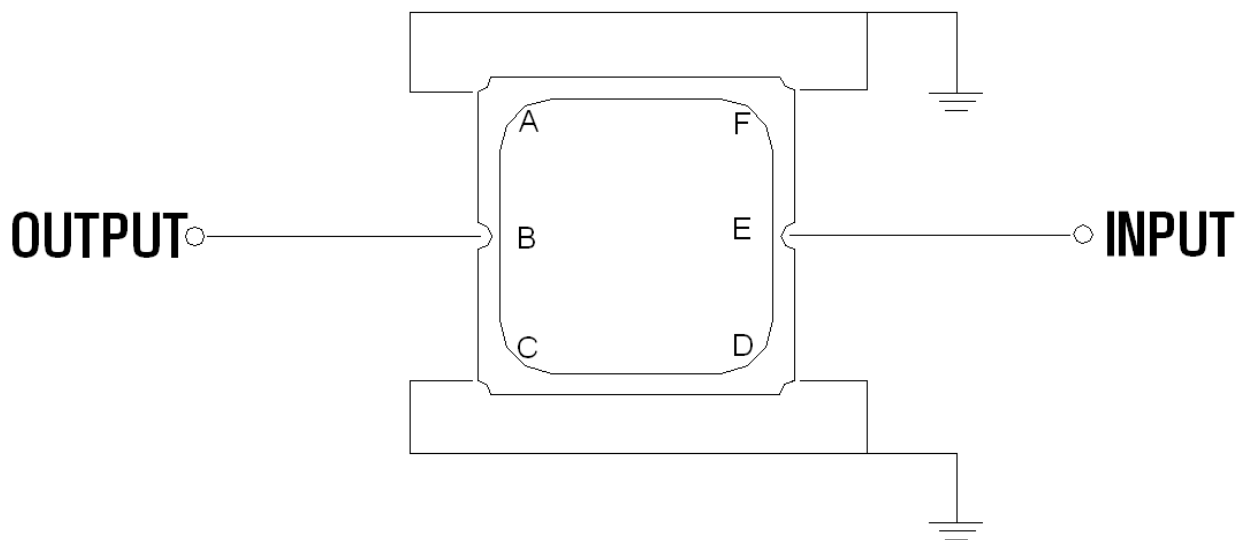
Package Dimensions



Marking Descriptions	
C	GSM Application
3	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

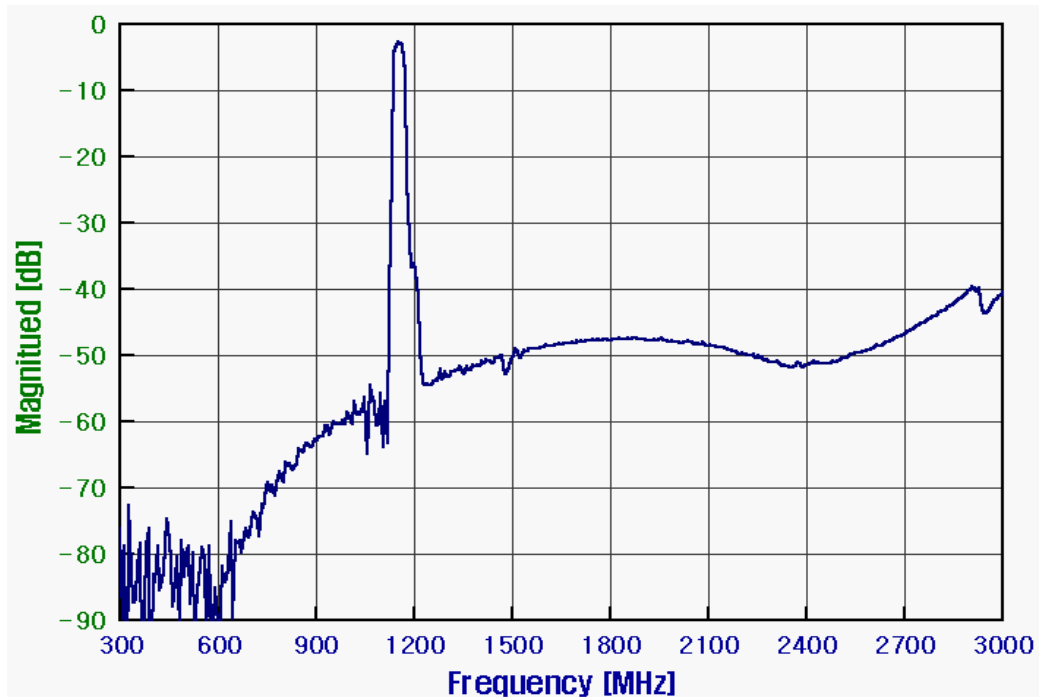
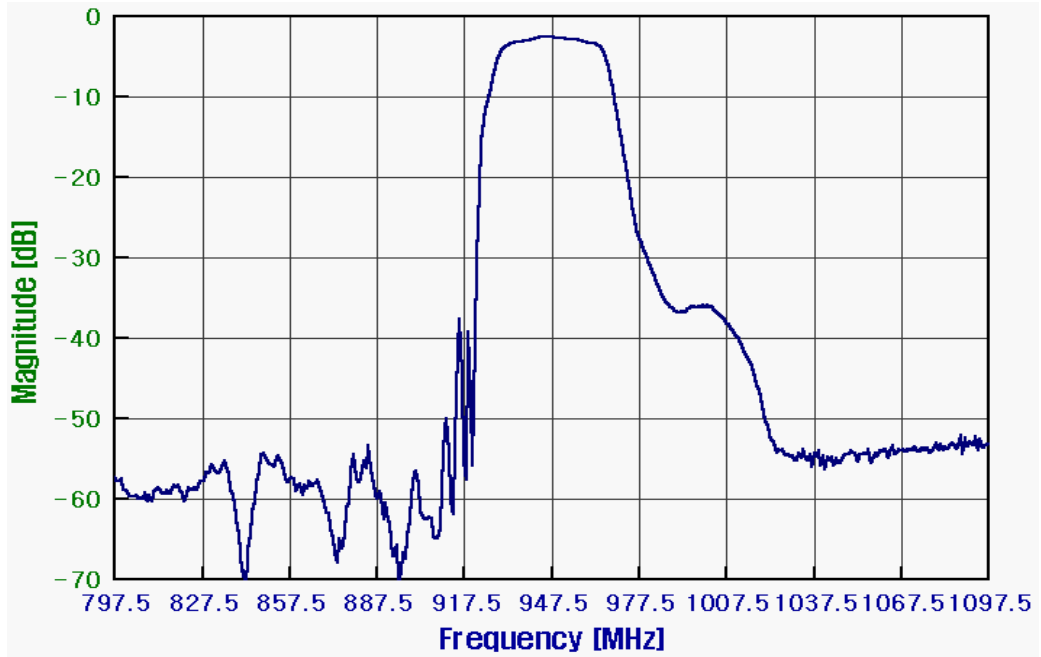
Testing Environment



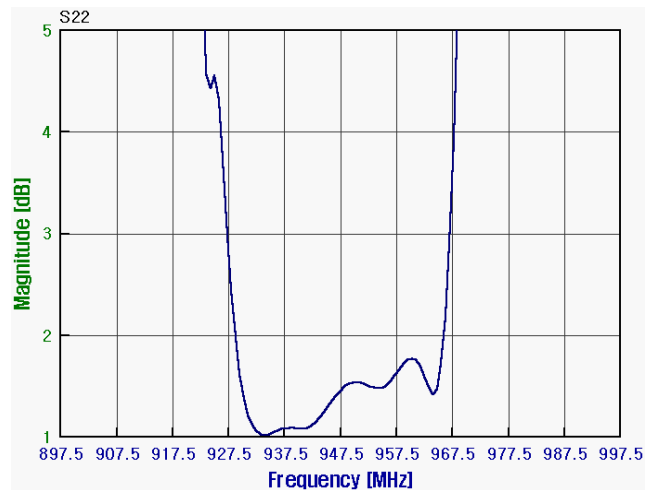
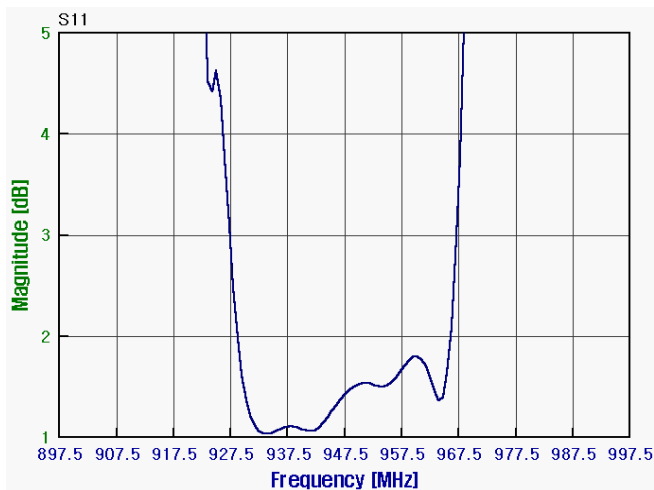
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

