



Total Solution Provider in Saw Device

SA1227AM

Wireless , RF SAW Filter
Revision 0: April 2009



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

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□ Electrical Characteristics

Maximum Ratings

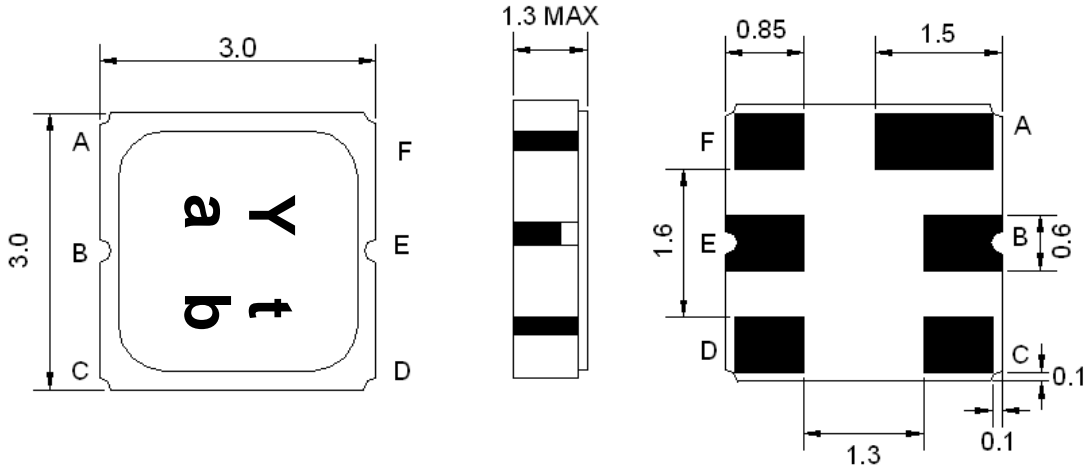
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	1227.0	-
Insertion Loss within 1217.0 ~ 1237.0 MHz	dB	-	1.0	2.0
Amplitude Ripple within 1217.0 ~ 1237.0 MHz	dB _{p-p}	-	0.4	1.0
Attenuation:				
D.C ~ 600.0 MHz	dB	17	20	-
600.0 ~ 1177.0 MHz	dB	15	18	-
1277.0 ~ 1290.0 MHz	dB	20	30	-
1290.0 ~ 3000.0 MHz	dB	15	20	-
VSWR within 1217.0~1237.0MHz	-	-	1.6	2.0

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

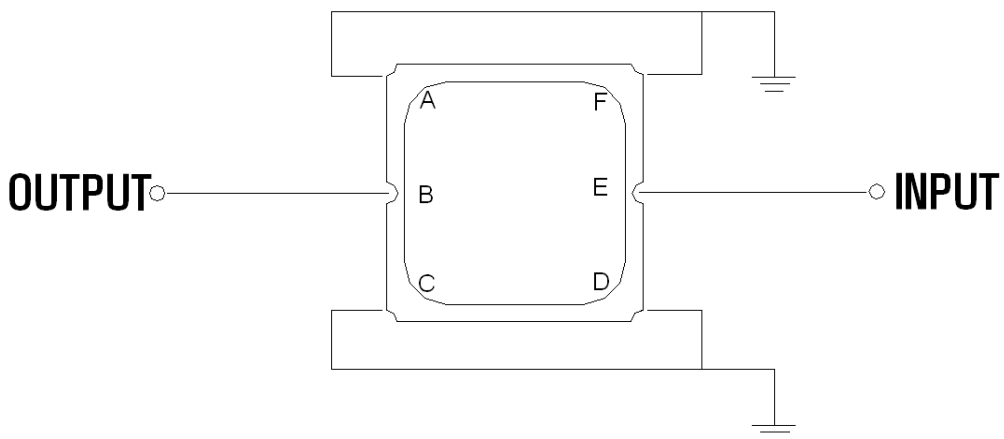
Package Dimensions



Marking Descriptions	
Y	Wireless Application
t	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

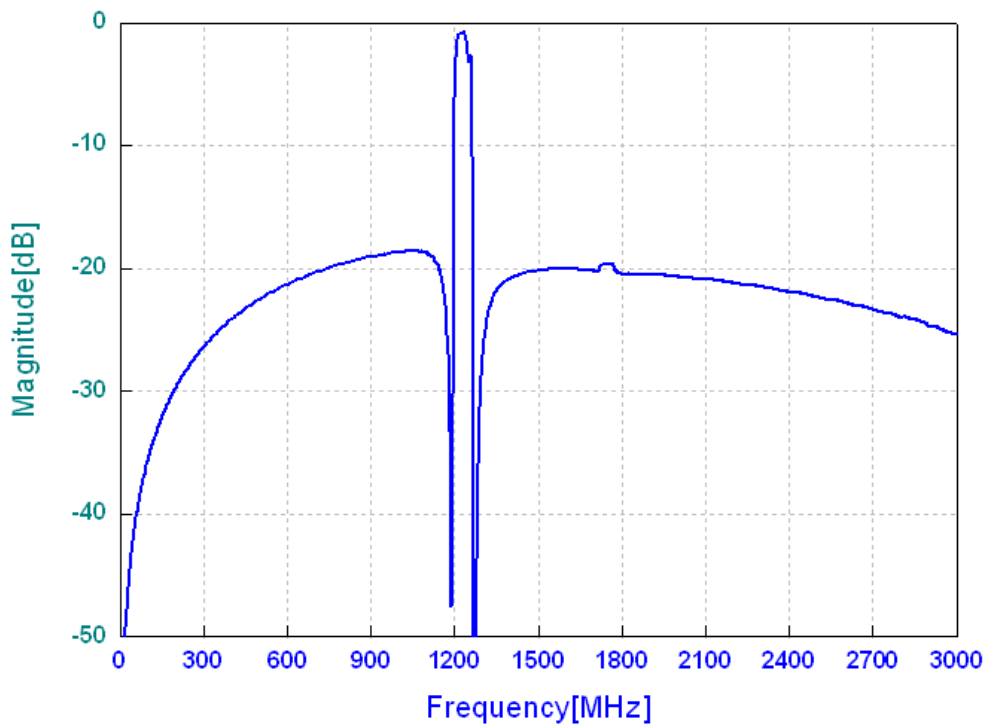
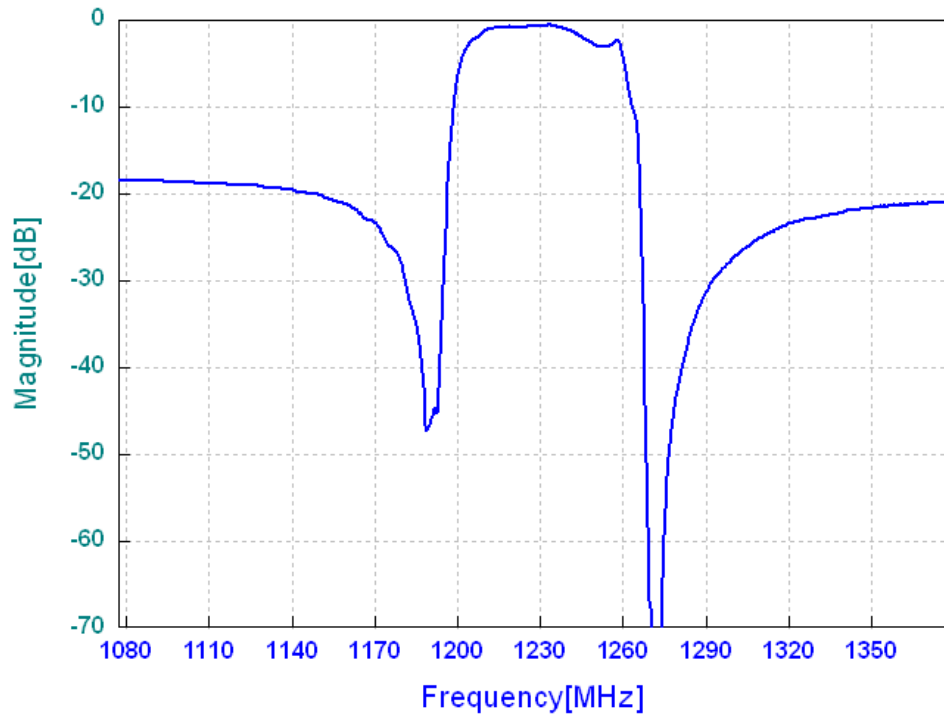
Testing Environment



Source & Load Impedance: 50 Ω

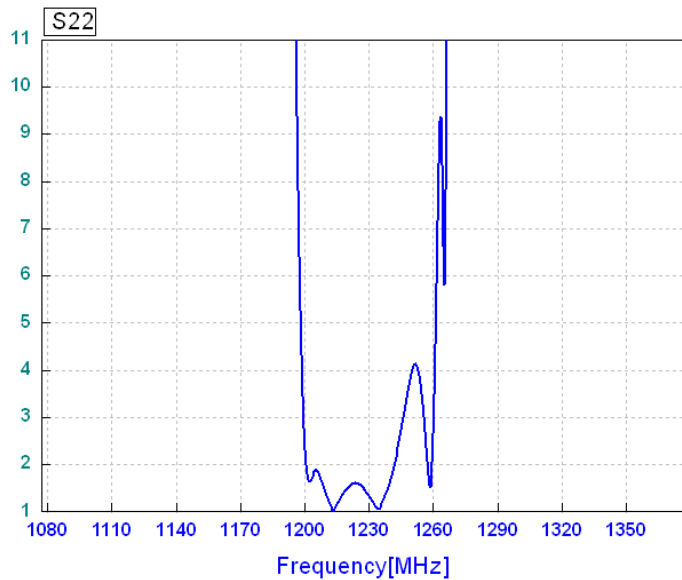
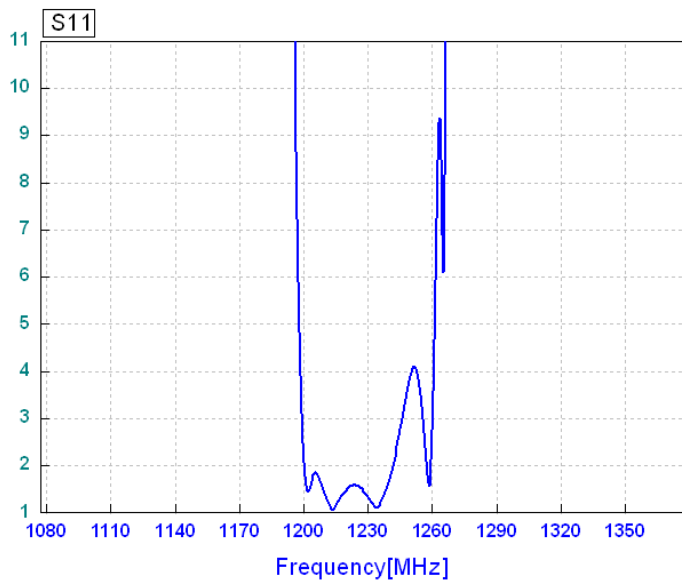
□ Frequency Characteristics

Frequency Response





VSWR



Smith Chart

