



Total Solution Provider in Saw Device

SA2160GM

Wireless, RF SAW Filter
Revision 0: December 2008



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

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□ Electrical Characteristics

Maximum Ratings

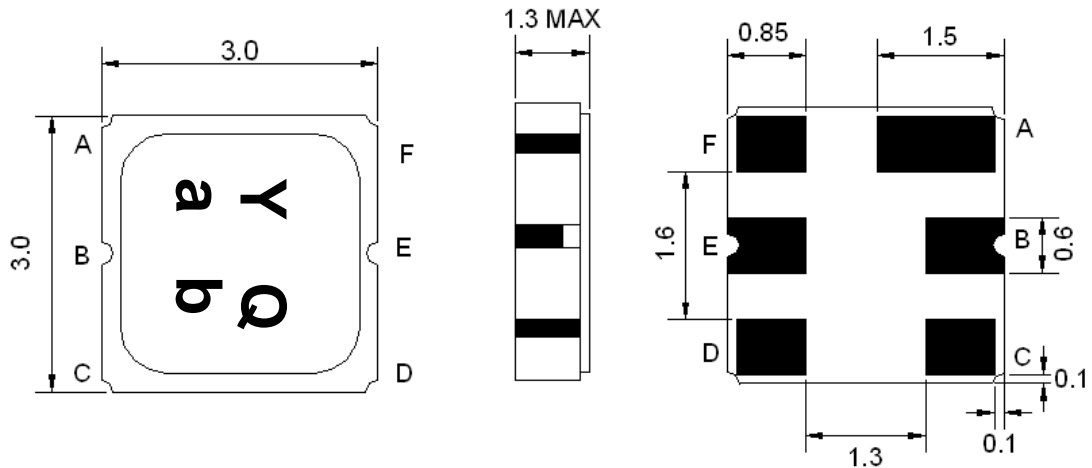
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	2160.0	-
Insertion Loss within 2140.0 ~ 2180.0 MHz	dB	-	2.5	3.0
Amplitude Ripple within 2140.0 ~ 2180.0MHz	dB _{p-p}	-	1.3	1.8
Group Delay Ripple within 2140 ~ 2180.0MHz	nS _{p-p}	-	5	15
Attenuation:				
D.C. ~ 1920.0 MHz	dB	35	37	-
1920.0 ~ 1980.0 MHz	dB	35	45	-
1980.0 ~ 2085.0 MHz	dB	30	44	-
2085.0 ~ 2100.0 MHz	dB	20	33	-
2230.0 ~ 4340.0 MHz	dB	25	35	-
VSWR within 2140.0 ~ 2180.0 MHz	-	-	2.0	2.3

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

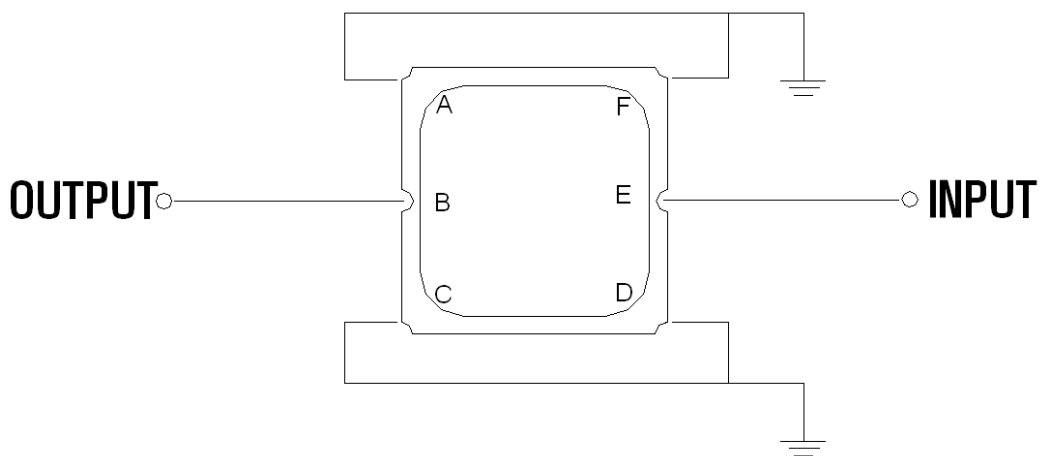
Package Dimensions



Marking Descriptions	
Y	Wireless Application
Q	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

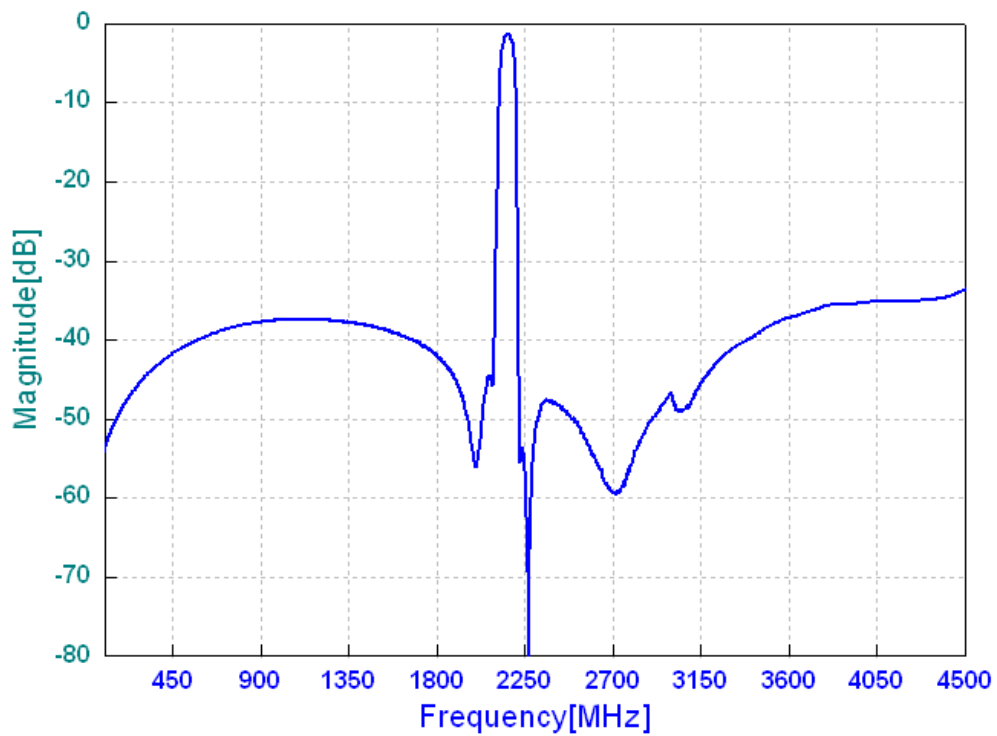
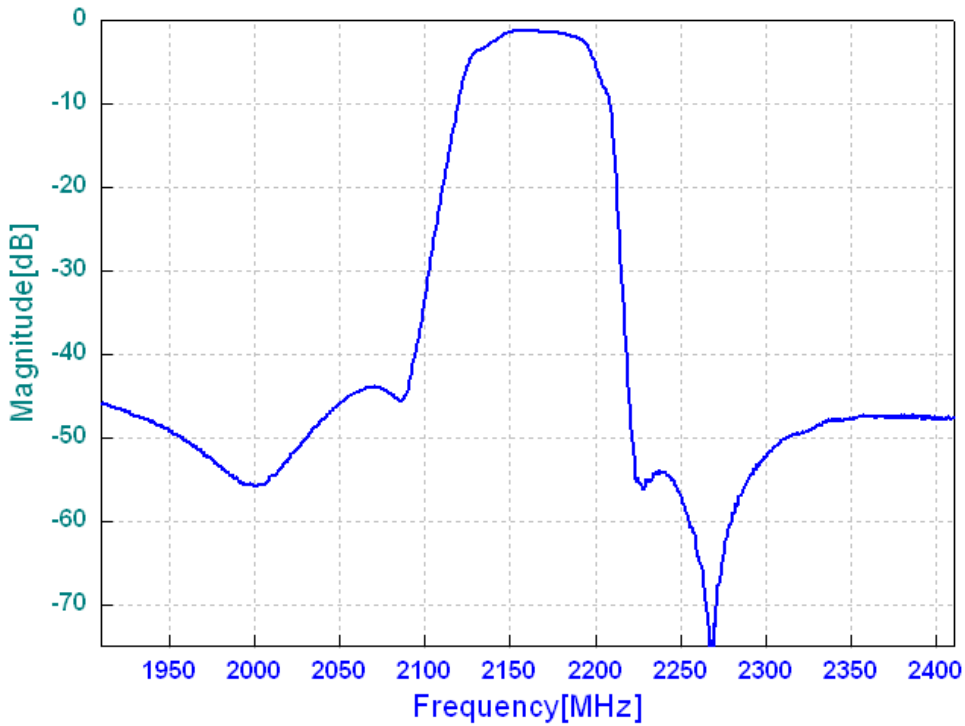
Testing Environment



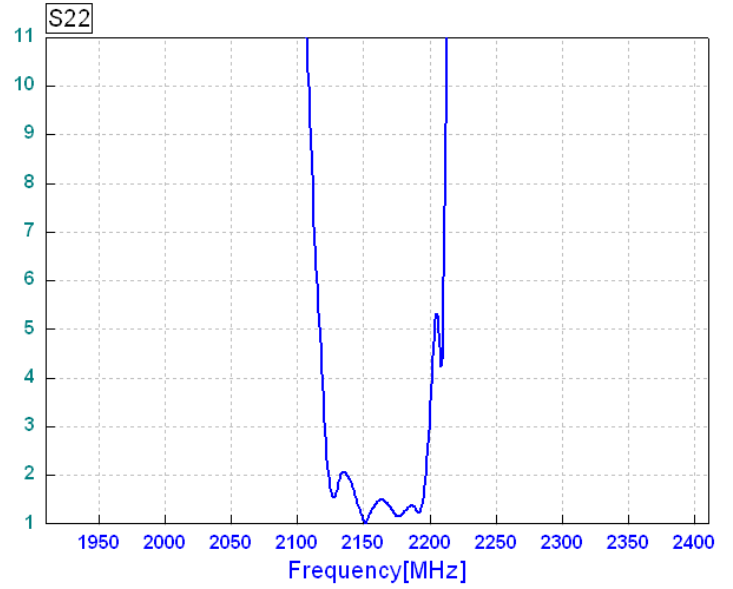
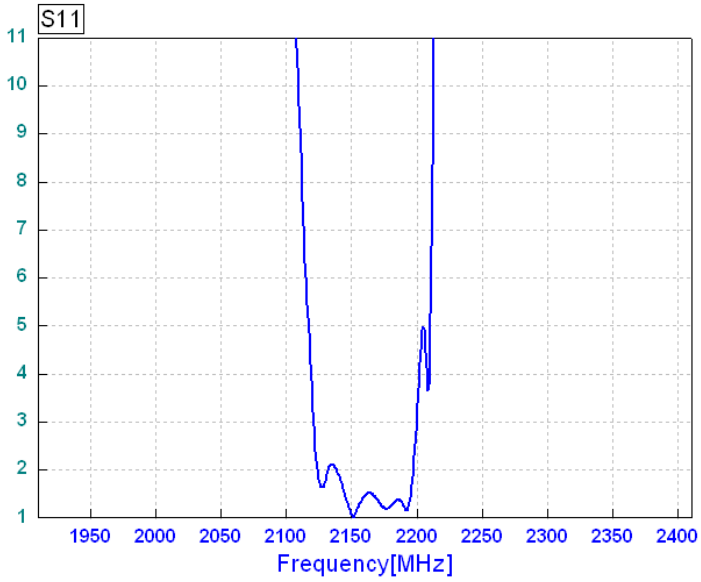
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

