



Total Solution Provider in Saw Device

SF-223001-S20

Wireless, RF SAW Filter
Revision 0: July 2013



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

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□ Electrical Characteristics

Maximum Ratings

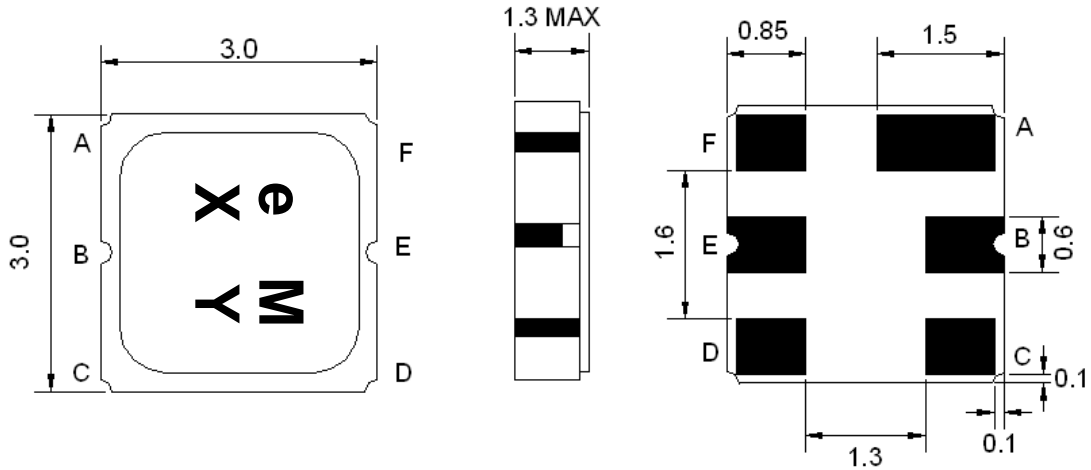
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	S20			
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	-	2230.0	-
Insertion Loss within 2212.5 ~ 2247.5 MHz	dB	-	1.7	3.0
Amplitude Ripple within 2212.5 ~ 2247.5 MHz	dB _{p-p}	-	0.6	2.0
Group Delay Ripple within 2212.5 ~ 2247.5 MHz	ns _{p-p}	-	3	20
Attenuation:				
D.C ~ 2130.0(Fo-100.0) MHz	dB	30	36	-
2130.0(Fo-100.0) ~ 2170.0(Fo-60.0) MHz	dB	15	22	-
2290.0(Fo+60.0) ~ 2330.0(Fo+100.0) MHz	dB	15	46	-
2330.0(Fo+100.0) ~ 3000.0 MHz	dB	35	45	-
VSWR within 2212.5 ~ 2247.5 MHz	-	-	1.6	2.0

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

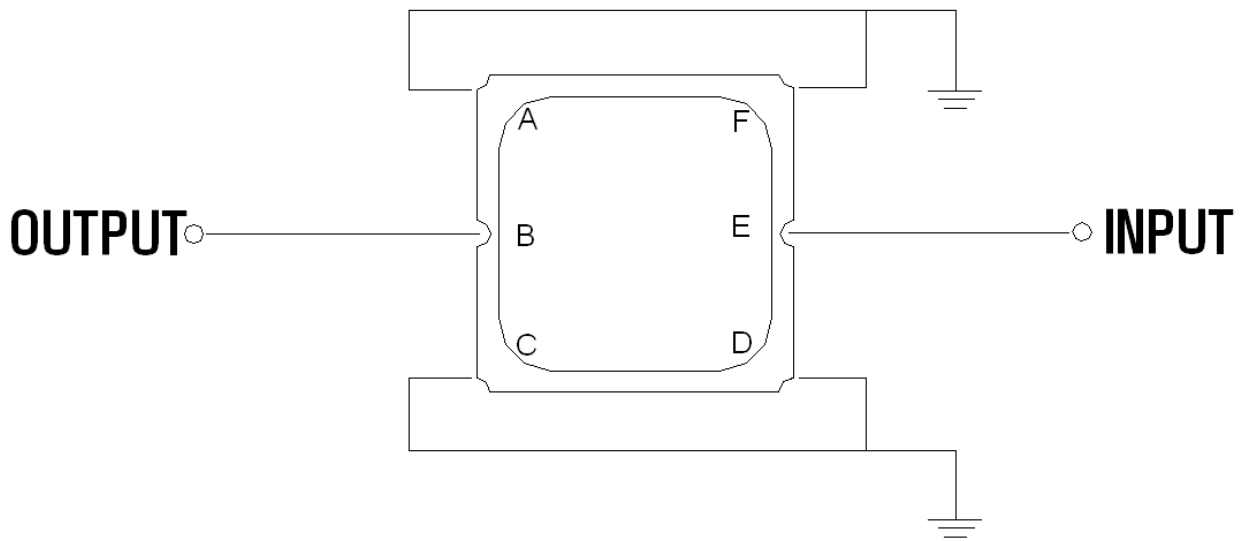
□ Package Dimensions



Marking Descriptions	
e	Wireless Application
M	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

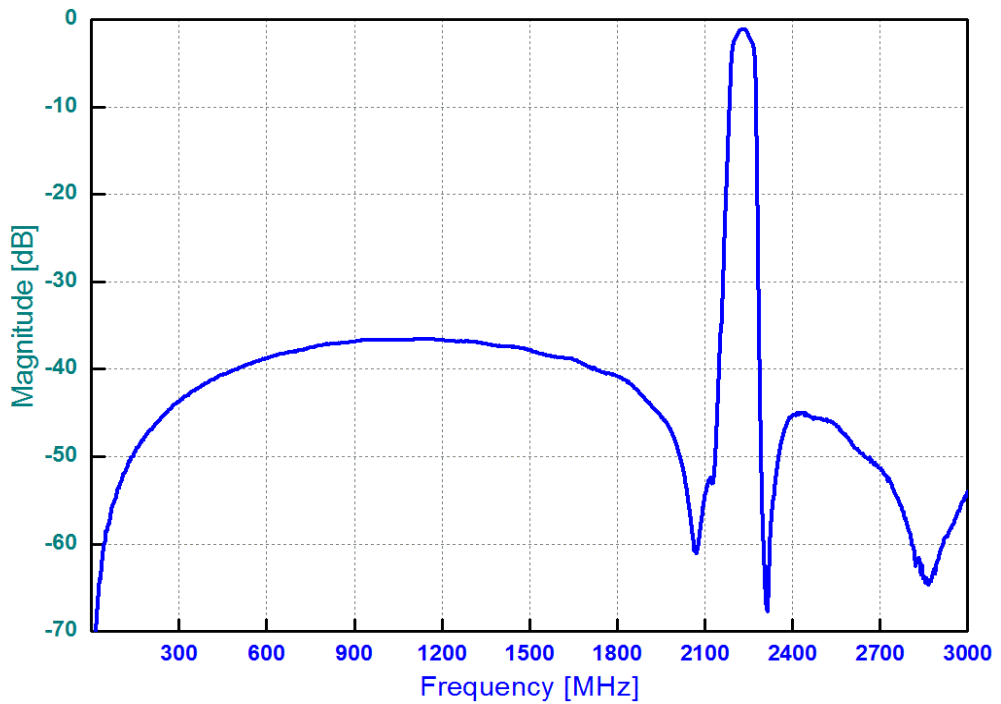
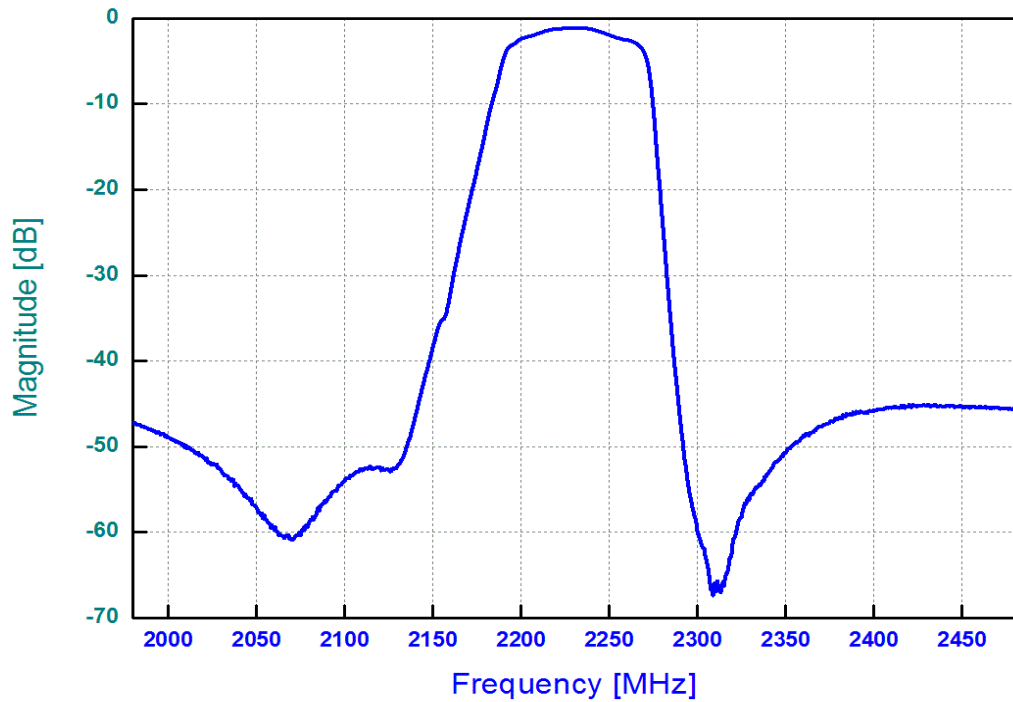
□ Testing Environment



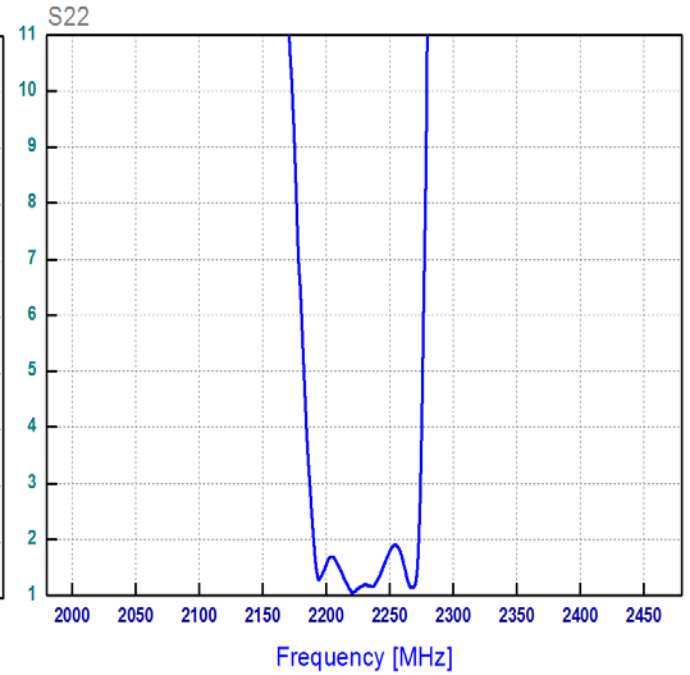
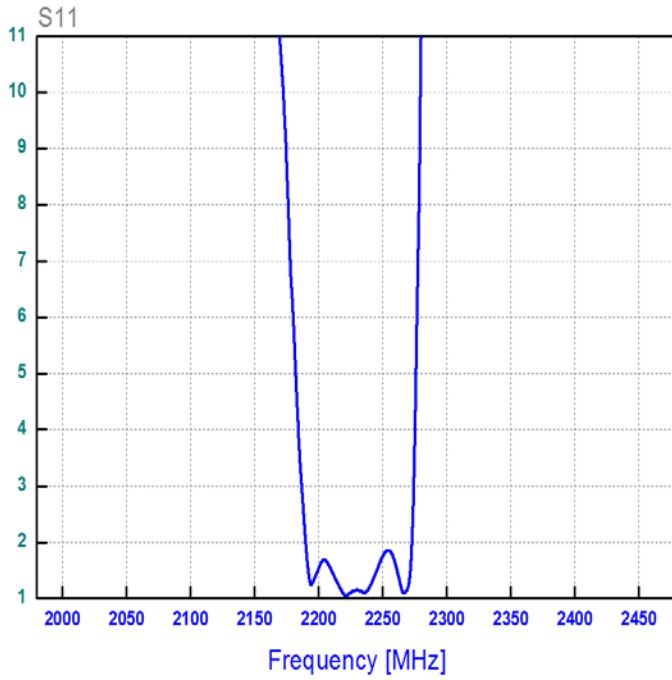
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

