



Total Solution Provider in Saw Device

SF-100002-S20

Wireless, RF SAW Filter
Revision 0: September 2013



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

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□ Electrical Characteristics

Maximum Ratings

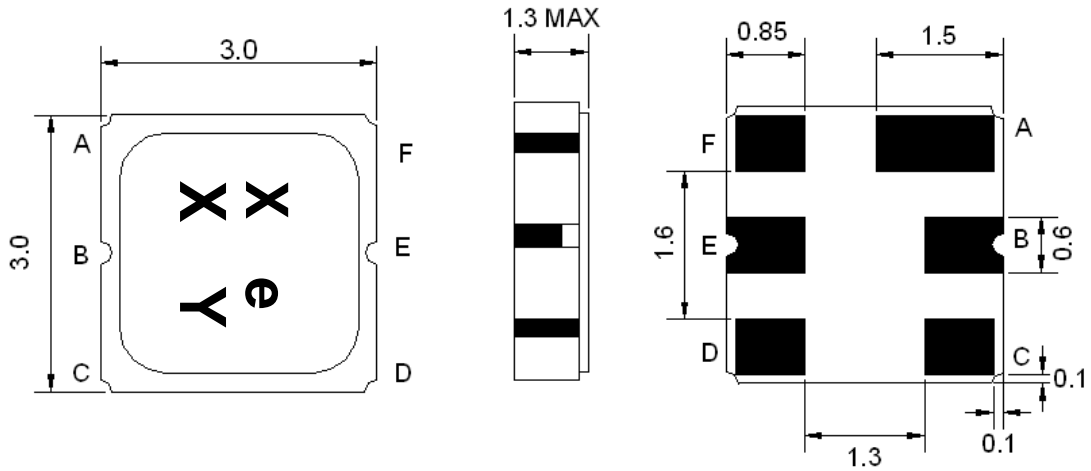
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	S20			
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	-	1000.0	-
Insertion Loss within 997.5 ~ 1002.5 MHz	dB	-	2.0	3.5
Amplitude Ripple within 997.5 ~ 1002.5 MHz	dB _{p-p}	-	0.3	1.5
Attenuation:				
D.C ~ Fo-100.0 MHz	dB	50	55	-
Fo+100.0 ~ Fo+400.0 MHz	dB	45	51	-
Fo+400.0 ~ Fo+750.0 MHz	dB	40	47	-
Fo+750.0 ~ Fo+1000.0 MHz	dB	35	42	-
Fo+1000.0 ~ Fo+2000.0 MHz	dB	20	28	-
VSWR within 997.5 ~ 1002.5 MHz	-	-	1.5	2.0

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

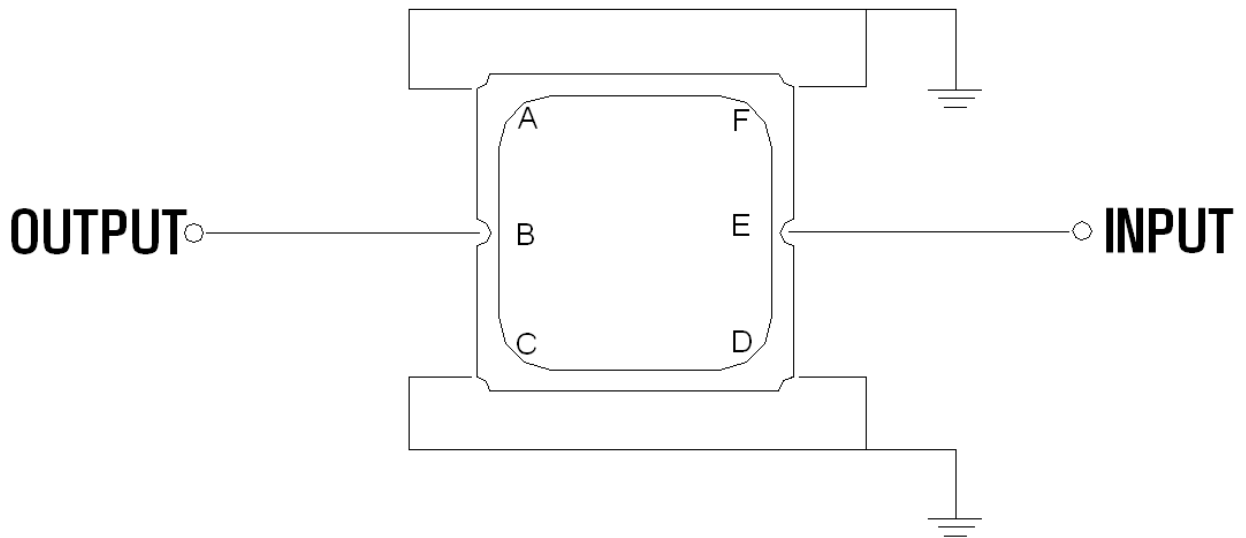
Package Dimensions



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

Pin Description	
A, C, D, F	Ground
E	Input or Output
B	Output or Input

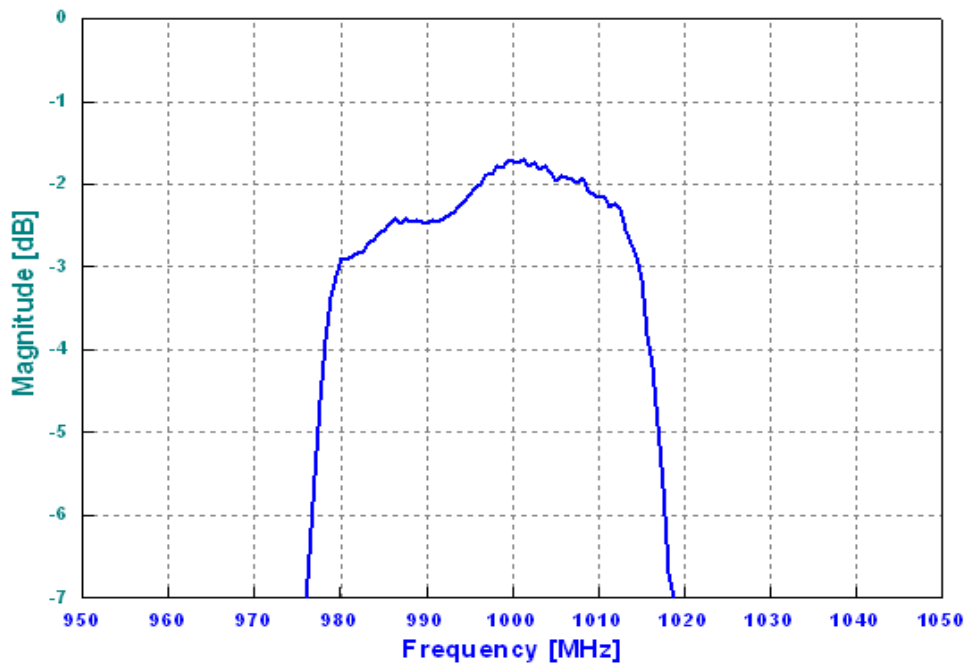
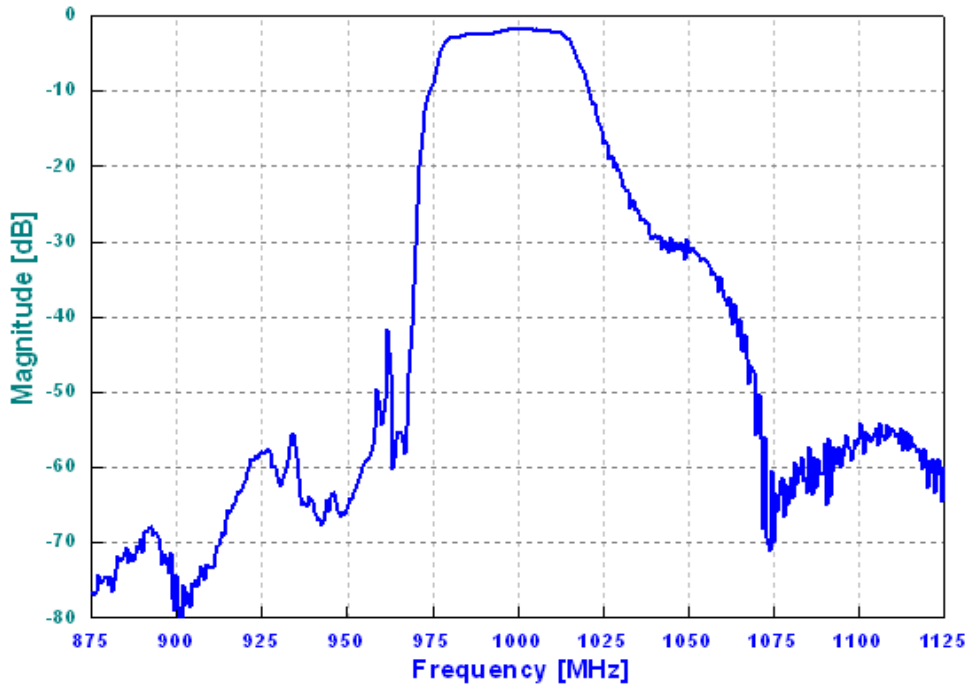
Testing Environment



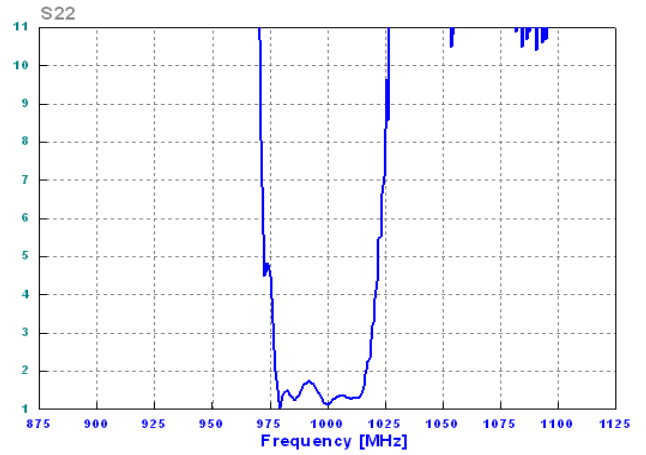
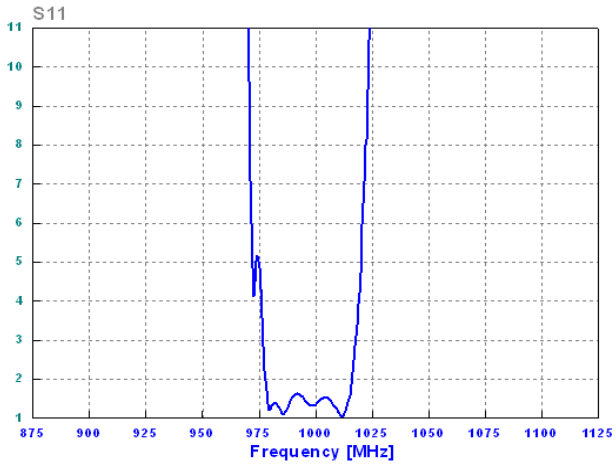
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

