



Total Solution Provider in Saw Device

SF-139501-S20

Wireless, RF SAW Filter
Revision 0: May 2013



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

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□ Electrical Characteristics

Maximum Ratings

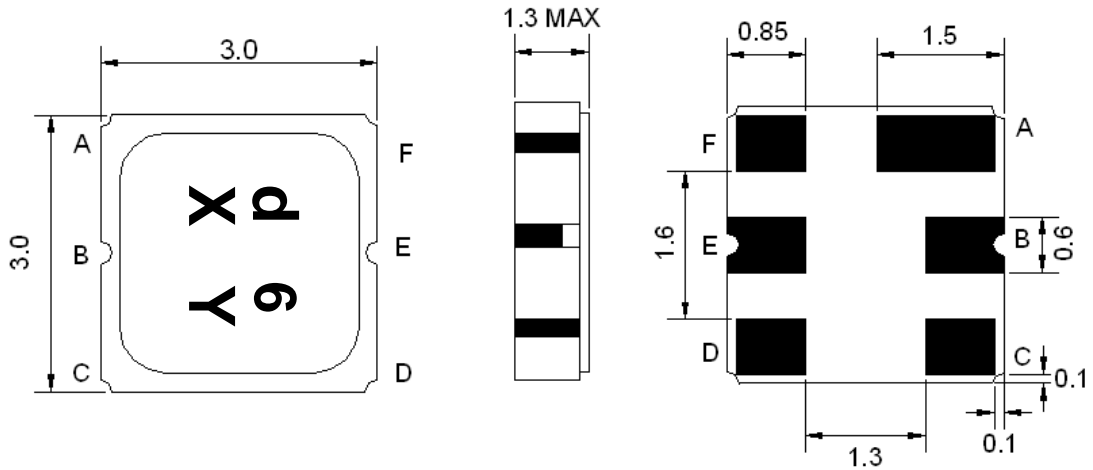
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-45	-	+85
Maximum DC Voltage	V	-	-	12
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	S20			
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	-	1395.0	-
Insertion Loss within 1385.0 ~ 1405.0 MHz	dB	-	2.6	3.5
Amplitude Ripple within 1385.0 ~ 1405.0 MHz	dB _{p-p}	-	0.4	1.0
Absolute Group Delay within 1385.0 ~ 1405.0 MHz	ns	-	6	30
Attenuation:				
0.3 ~ 960.0 MHz	dB	45	50	-
1050.0 ~ 1120.0 MHz	dB	45	48	-
12480.0 ~ 1268.0 MHz	dB	40	46	-
1700.0 ~ 2500.0 MHz	dB	30	41	-
3000.0 ~ 4000.0 MHz	dB	10	20	-
VSWR within 1385.0 ~ 1405.0 MHz	-	-	1.5	2.0

Notes : (1) No Matching Network .

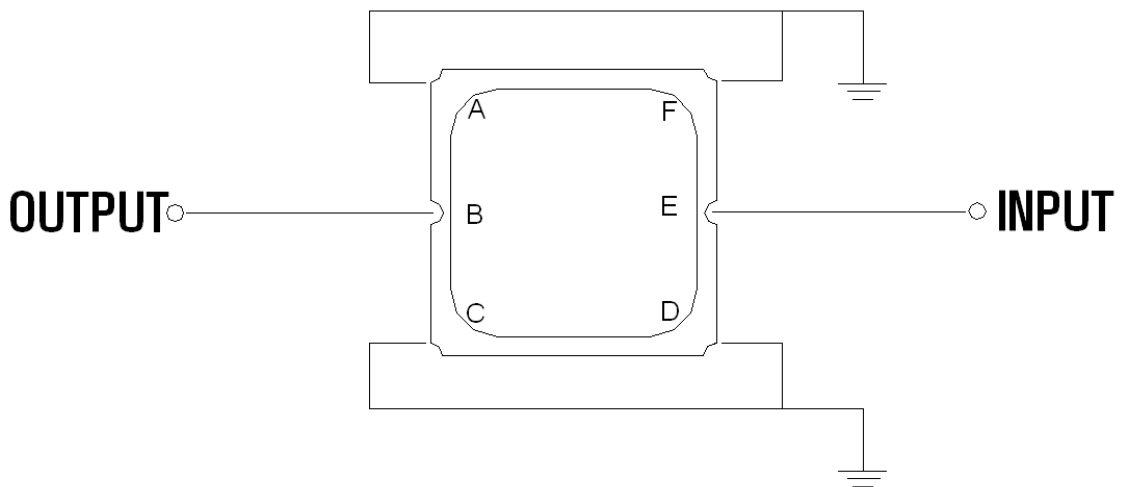
Package Dimensions



Marking Descriptions	
d	Wireless Application
6	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

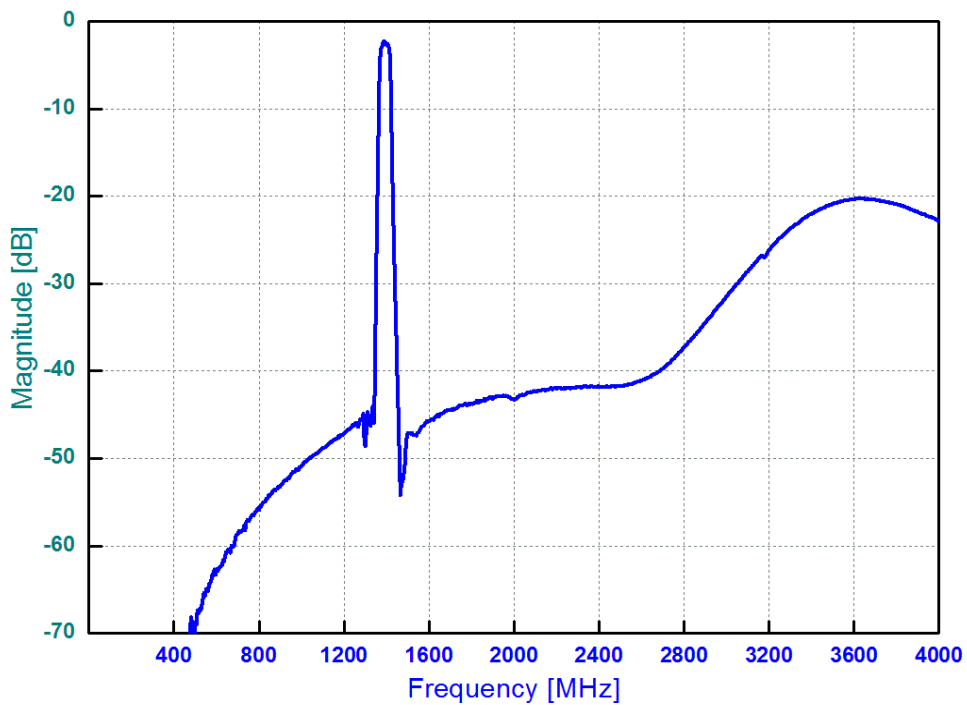
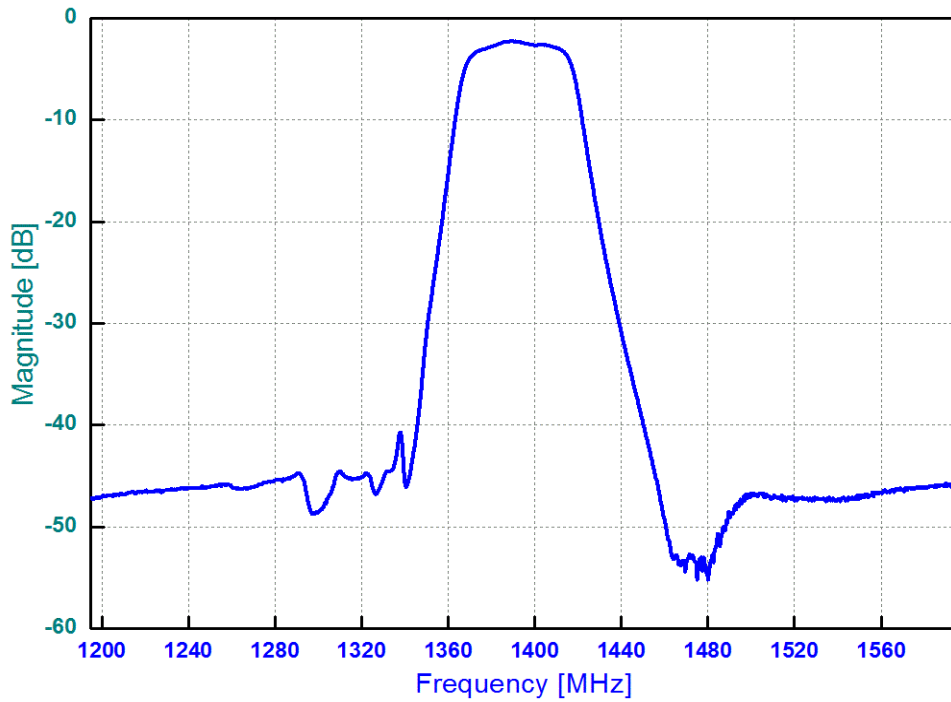
Testing Environment



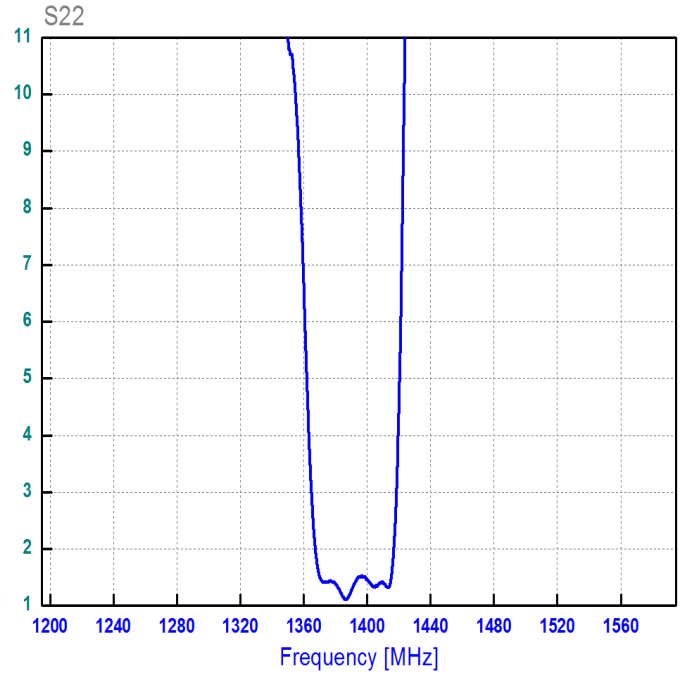
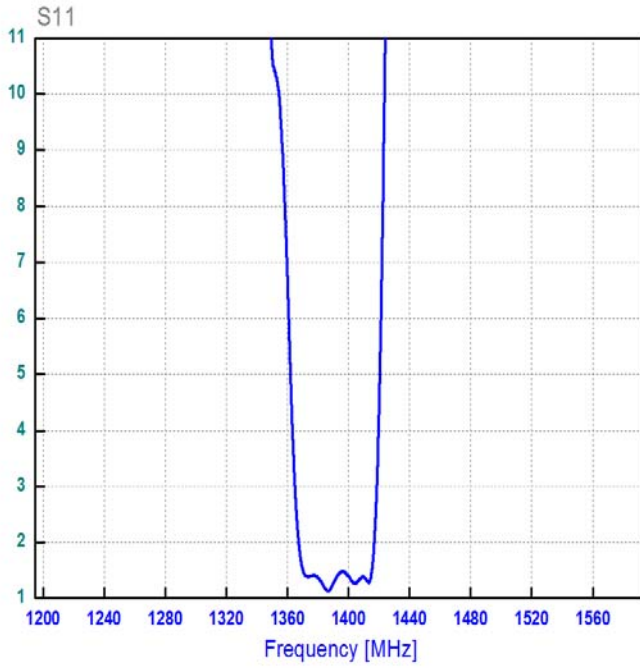
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

