



Total Solution Provider in Saw Device

SA1415AP

Wireless, RF SAW Filter
Revision 0: December 2004



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

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□ Electrical Characteristics

Maximum Ratings

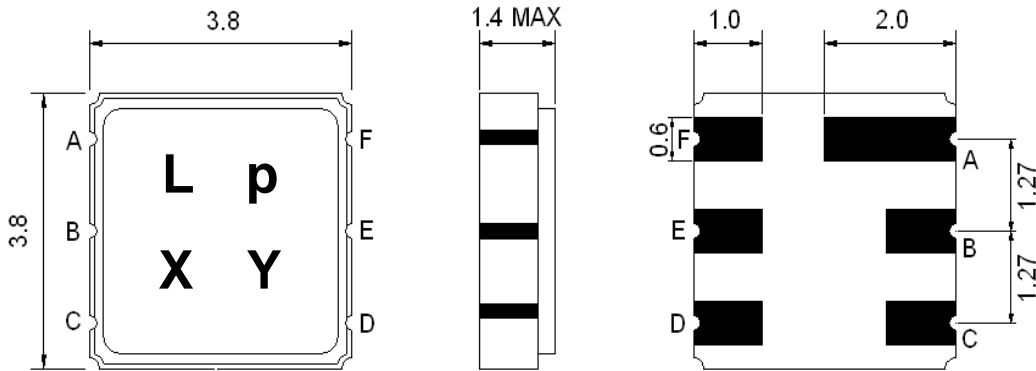
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	13
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	P			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1415.0	-
Insertion Loss within 1395 ~ 1432 MHz	dB	-	3.5	4.5
Amplitude Ripple within 1395 ~ 1432 MHz	dB _{p-p}	-	1.0	2.0
Attenuation:				
D.C. ~ 900 MHz	dB	50	60	-
900 ~ 960 MHz	dB	50	60	-
960 ~ 1320 MHz	dB	40	55	-
1500 ~ 1860 MHz	dB	30	45	-
1860 ~ 1910 MHz	dB	40	50	-
1910 ~ 3000 MHz	dB	30	35	-
VSWR within 1395 ~ 1432 MHz	-	-	2.0	2.5

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

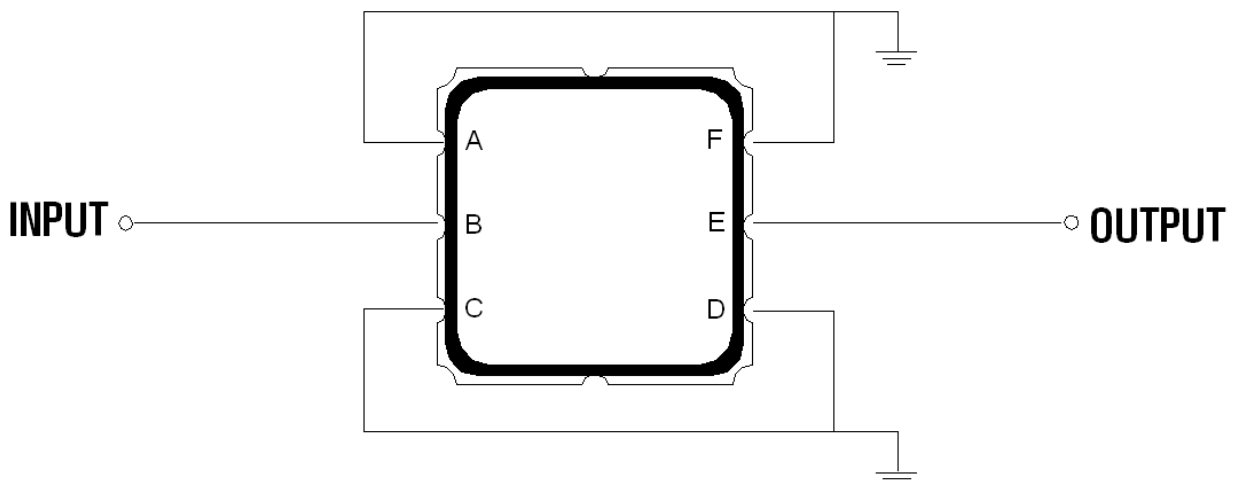
Package Dimensions



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

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

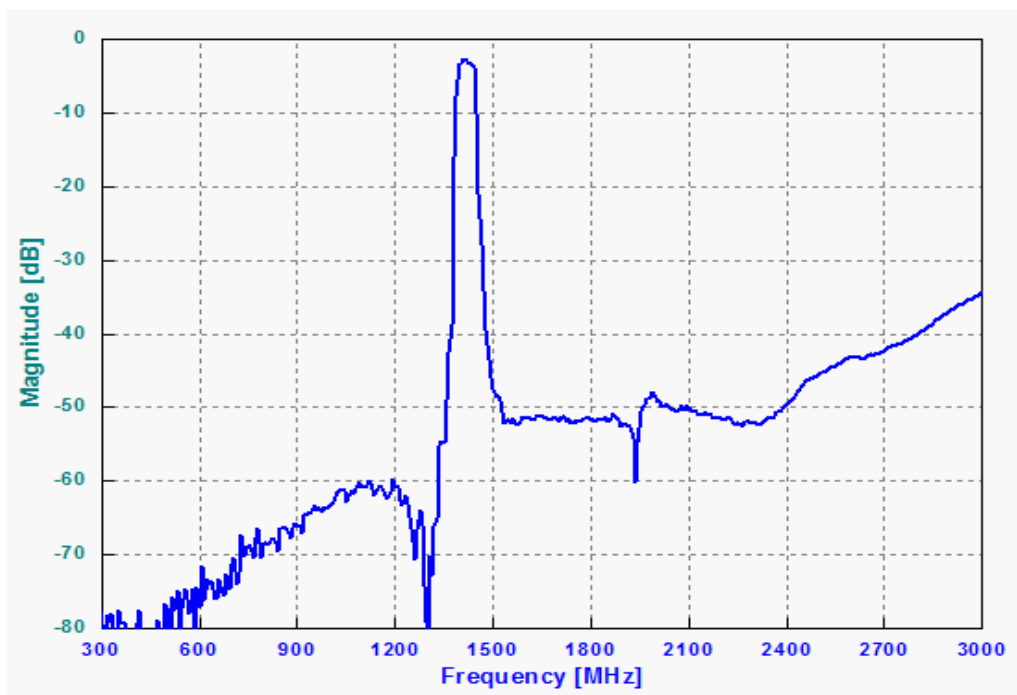
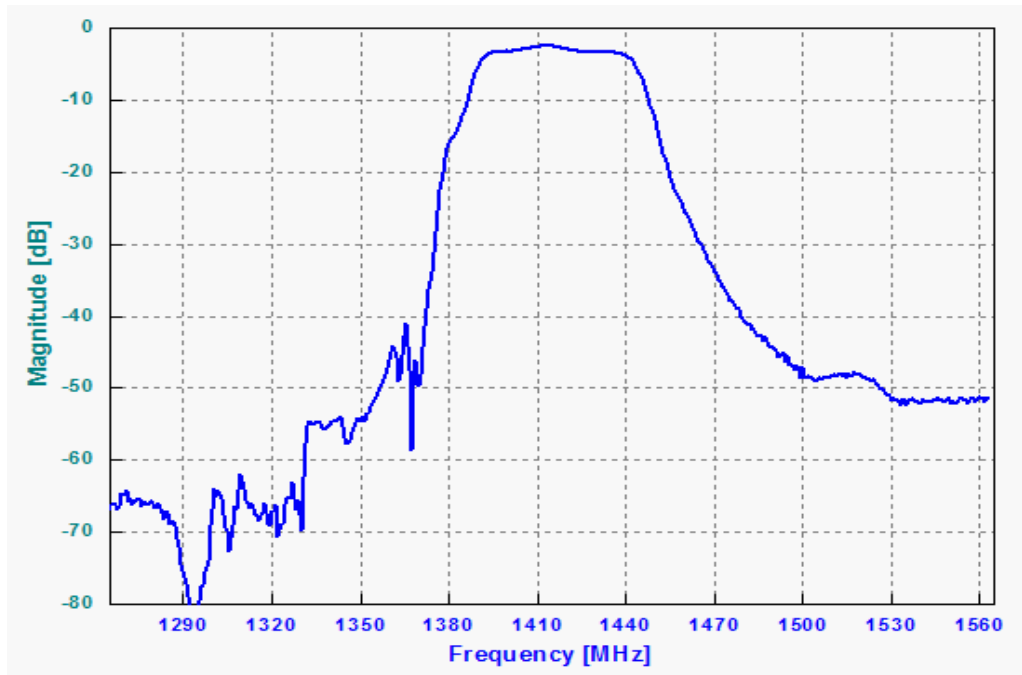
Testing Environment



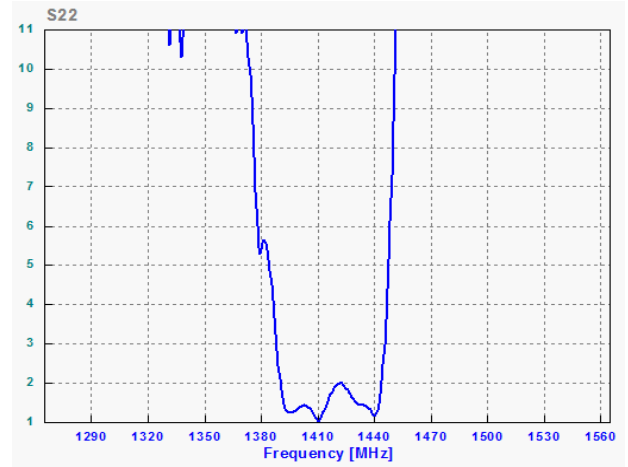
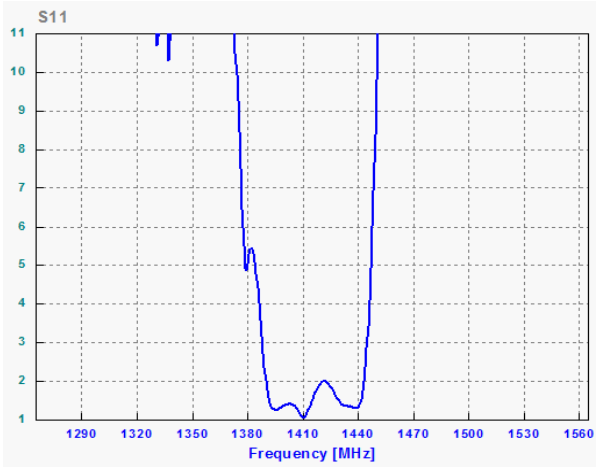
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

