



Total Solution Provider in Saw Device

SA1438BM

Wireless, RF SAW Filter
Revision 0: April 2011



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

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□ Electrical Characteristics

Maximum Ratings

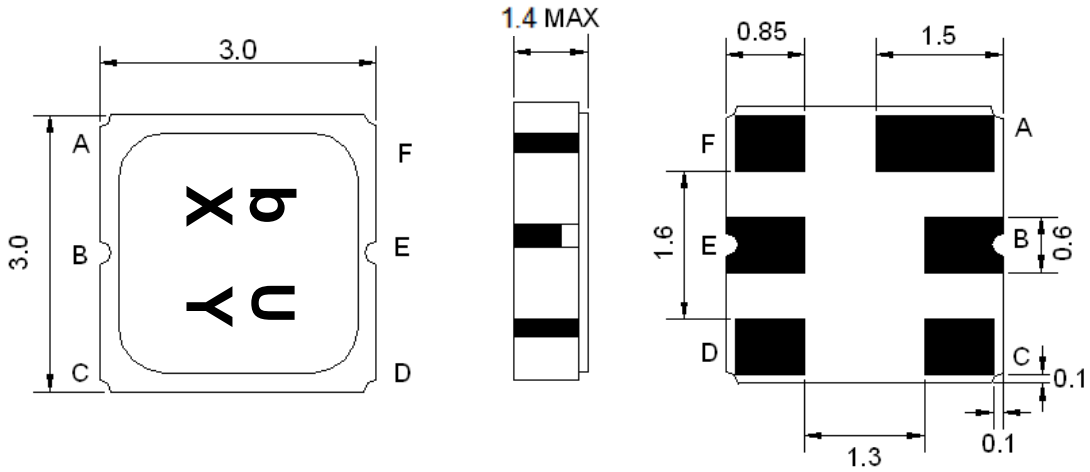
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	1437.9	-
Insertion Loss within 1427.9 ~ 1447.9 MHz	dB	-	3.0	4.5
Amplitude Ripple within 1427.9 ~ 1447.9 MHz	dB _{p-p}	-	0.3	1.5
Return Loss within 1427.9 ~ 1447.9 MHz	dB	10	12	-
Attenuation:				
1287.9 ~ 1307.9 MHz	dB	45	50	-
1620.0 ~ 3000.0 MHz	dB	20	22	-
20.0 ~ 1200.0 MHz	dB	45	55	-
1497.9 ~ 1517.9 MHz	dB	25	40	-
1357.9 ~ 1377.9 MHz	dB	40	45	-
1475.9 ~ 1495.9 MHz	dB	10	20	-

Notes : (1) No Matching Network .

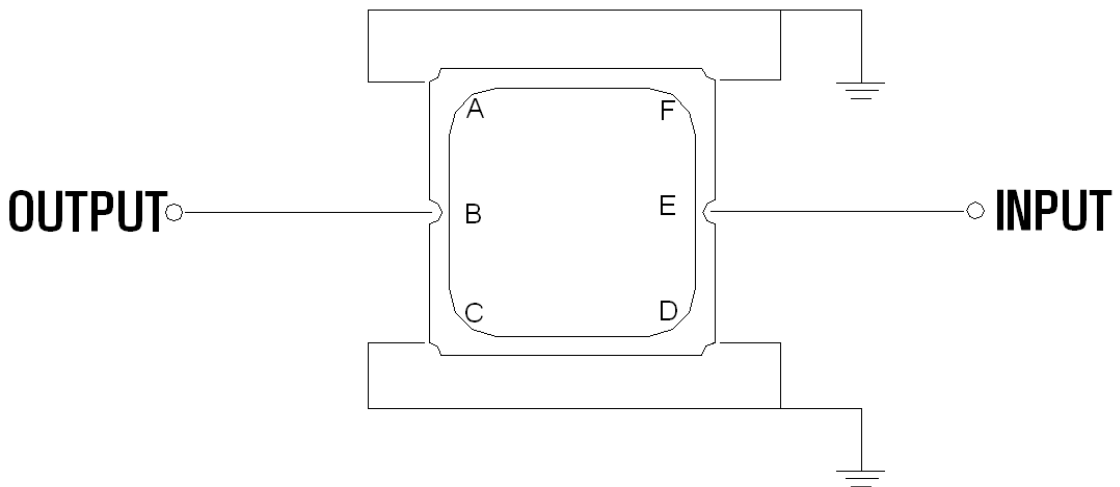
Package Dimensions



Marking Descriptions	
b	Wireless Application
U	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

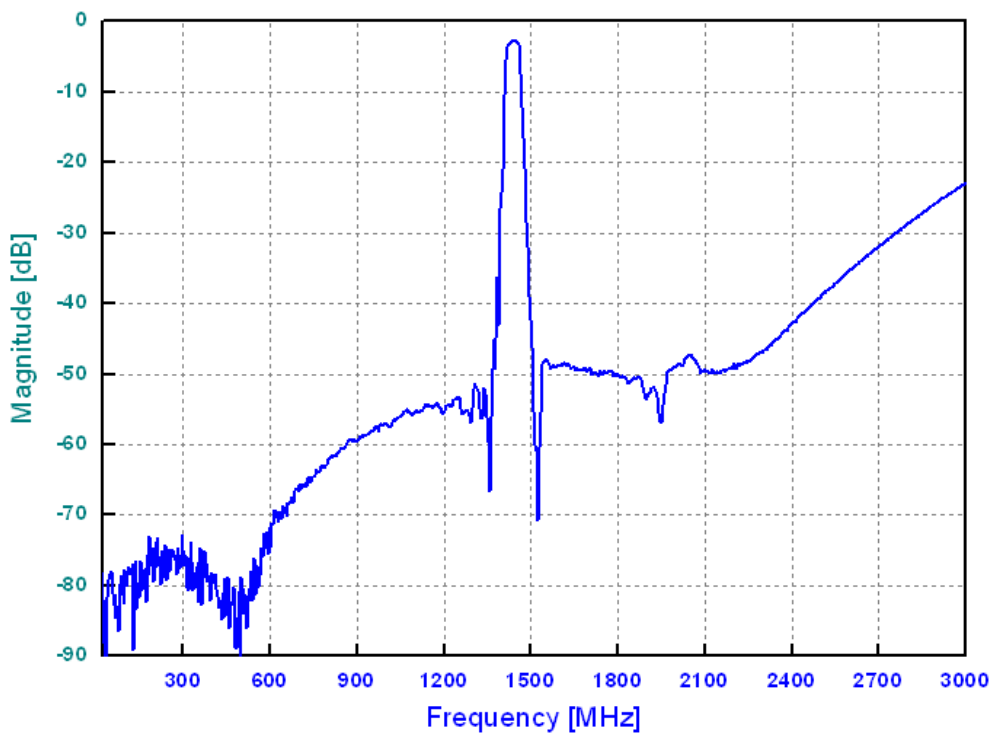
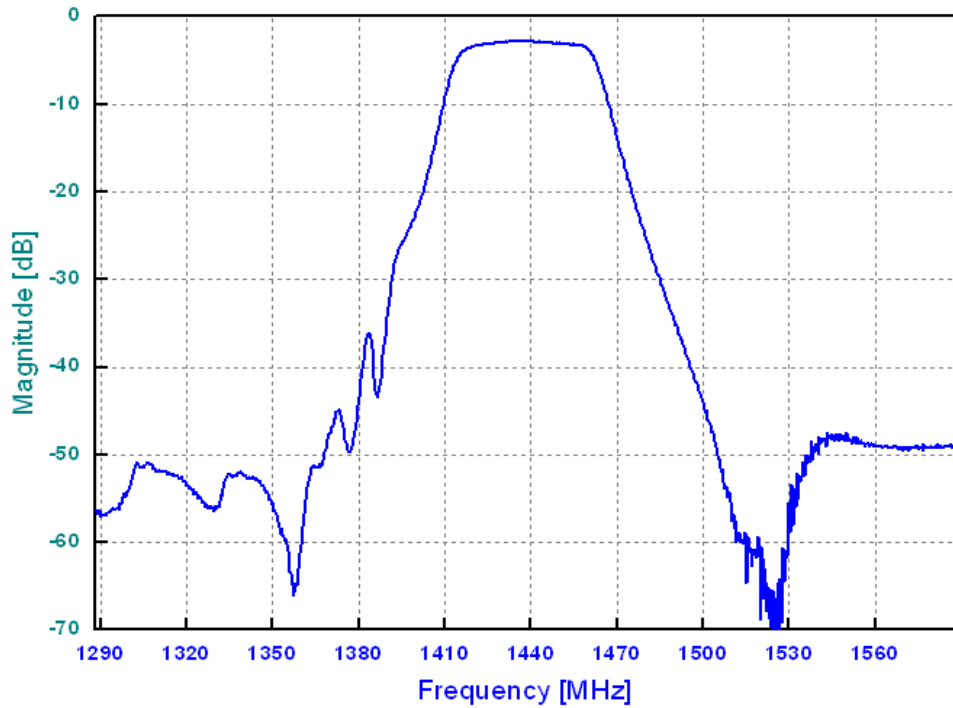
Testing Environment



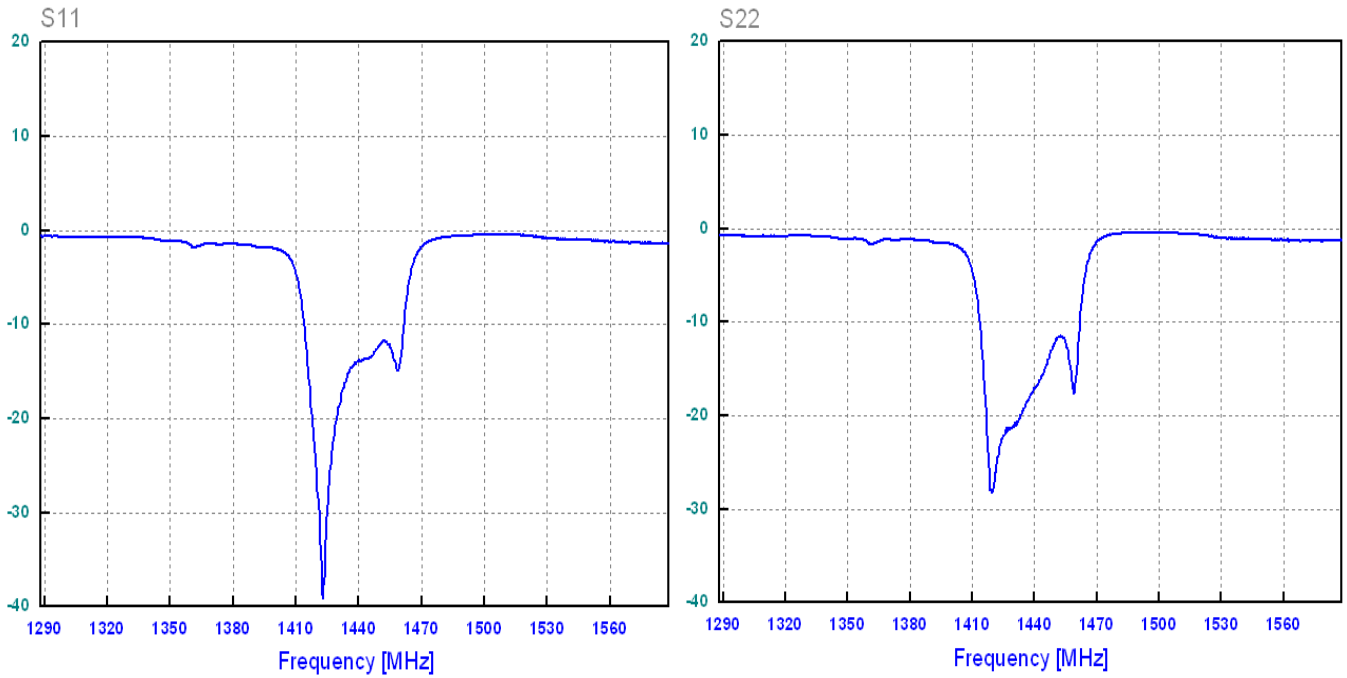
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

