



Total Solution Provider in Saw Device

SA831BM

Wireless, RF SAW Filter
Revision 0: December , 2009



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

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□ Electrical Characteristics

Maximum Ratings

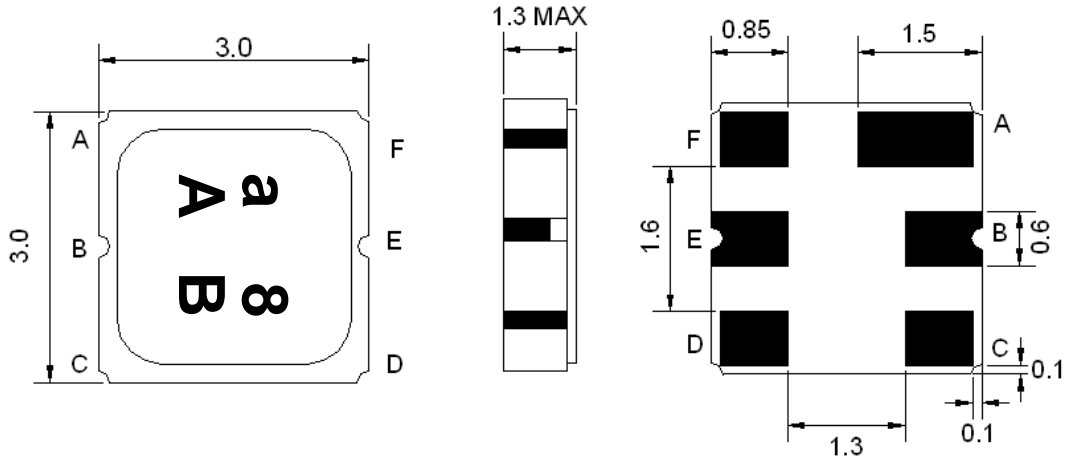
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	831.5	-
Insertion Loss within 824.0~839.0MHz	dB	-	1.3	3.0
Amplitude Ripple within 824.0~839.0MHz	dB _{p-p}	-	0.6	1.5
Attenuation				
0.3 ~ 800.0 MHz	dB	30	34	-
854.0 MHz	dB	15	45	-
869.0 ~ 884.0 MHz	dB	35	40	-
884.0 ~ 2000.0 MHz	dB	30	35	-
VSWR within 824.0~839.0MHz	-	-	1.8	2.1

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

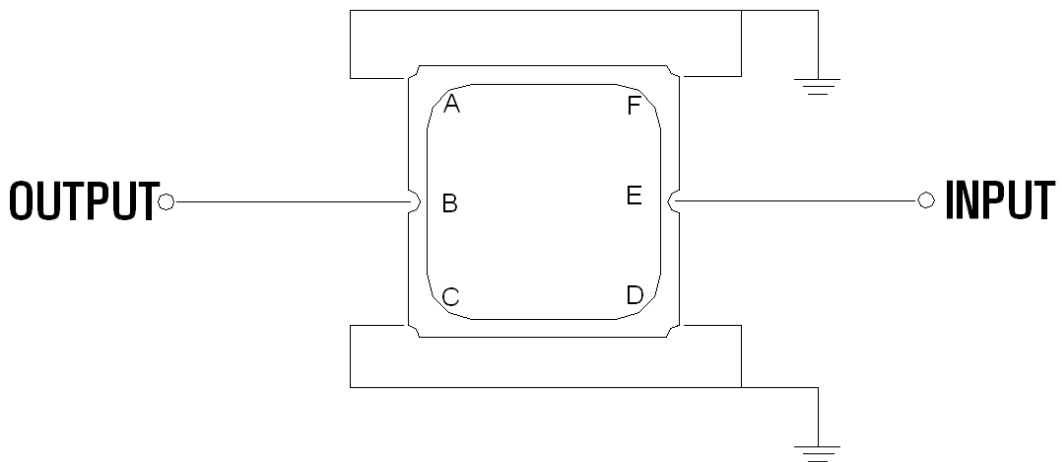
Package Dimensions



Marking Descriptions	
a	Wireless Application
8	Series Number
A	Date Code(Year)
B	Date Code(Month)

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

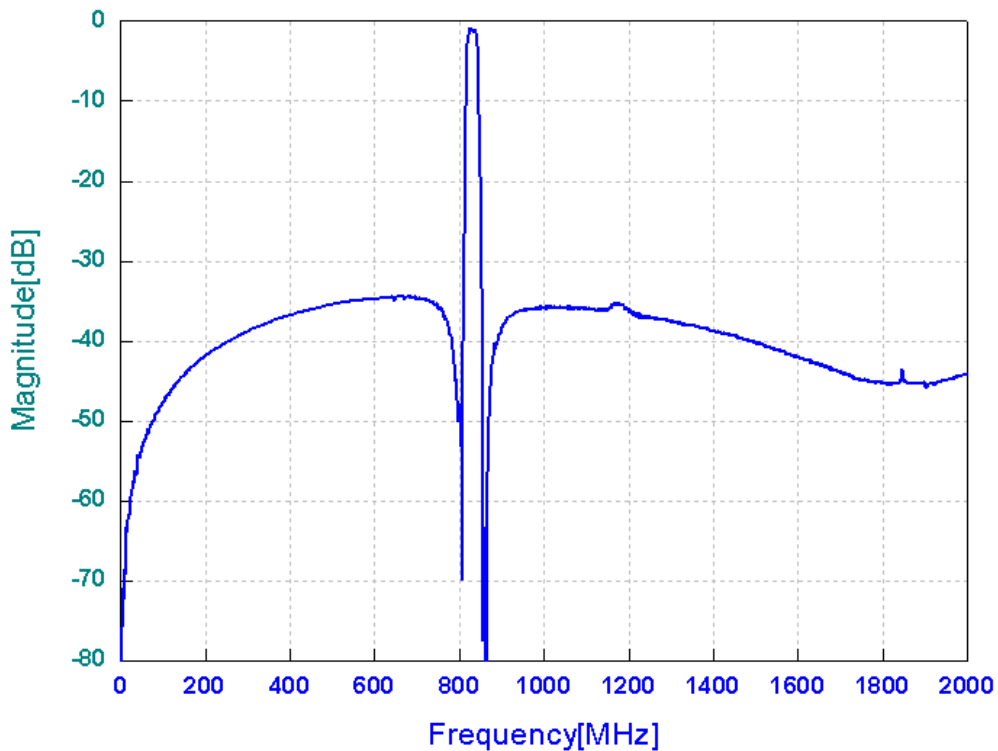
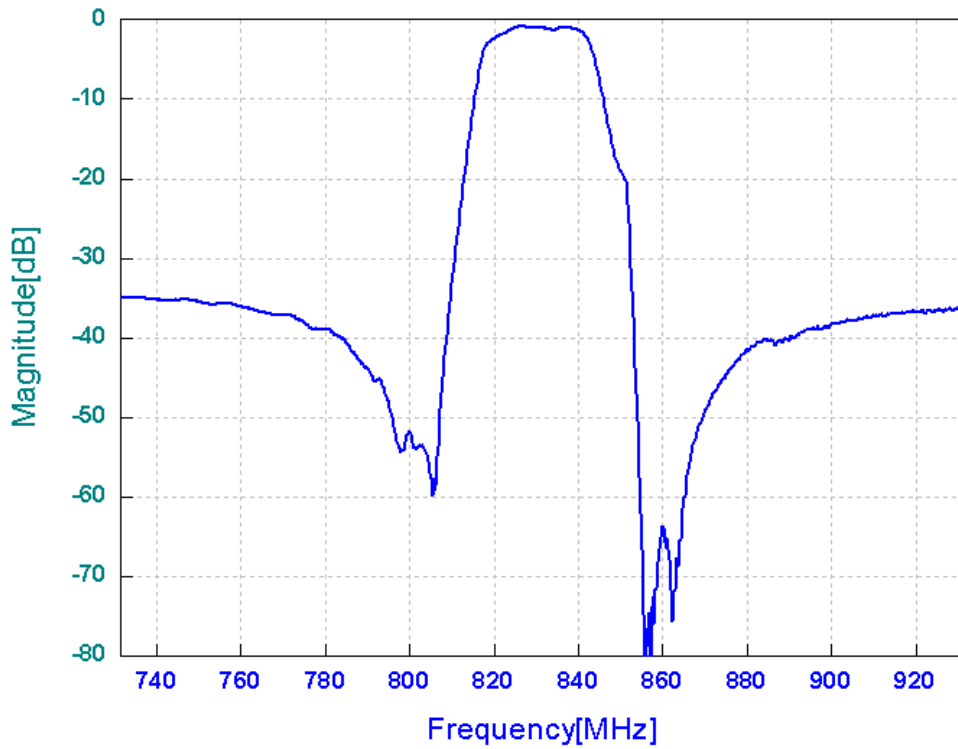
Testing Environment



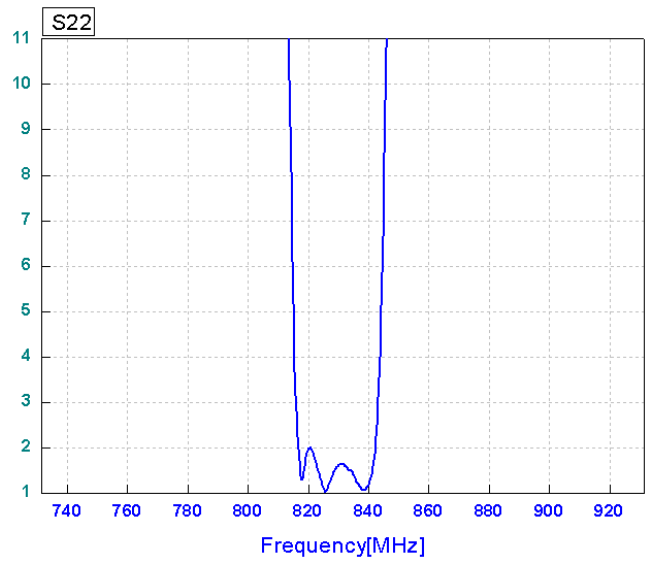
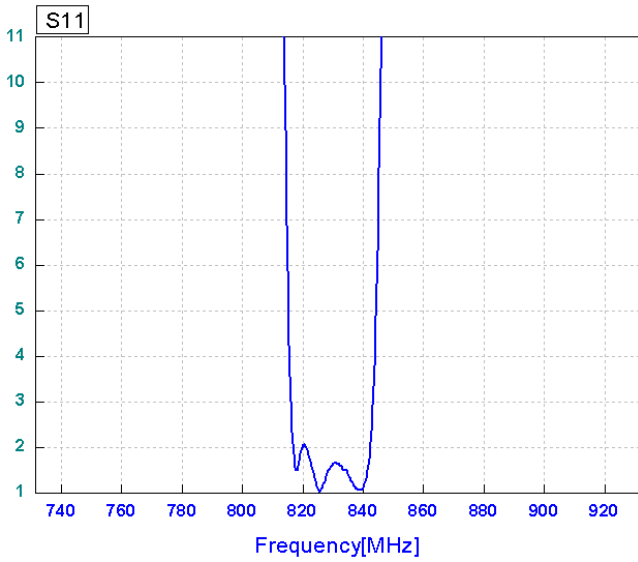
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

