



Total Solution Provider in Saw Device

SA842BM

Wireless, RF SAW Filter
Revision 0: December 2009



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

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□ Electrical Characteristics

Maximum Ratings

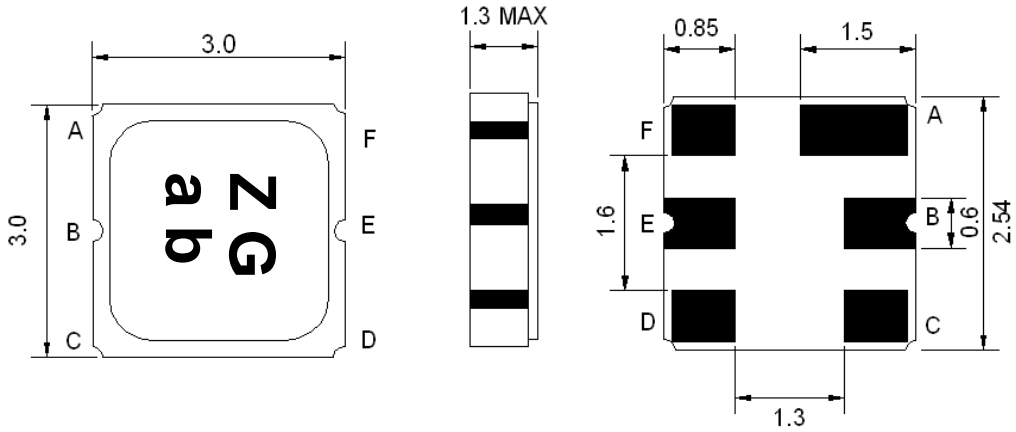
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	842.5	-
Insertion Loss within 832.5~852.5MHz	dB	-	2.5	3.5
Group Delay Ripple within 832.5~852.5MHz	ns _{p-p}	-	22	50
Amplitude Ripple within 832.5~852.5MHz	dB _{p-p}	-	0.9	1.5
Attenuation				
D.C ~ 795.0 MHz	dB	45	52	-
795.0 ~ 800.0 MHz	dB	40	50	-
894.0 ~ 968.0 MHz	dB	30	37	-
1059.0 ~ 1078.0 MHz	dB	50	60	-
1078.0 ~ 3000.0 MHz	dB	25	30	-
VSWR within 832.5~852.5MHz	-	-	1.8	2.3

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

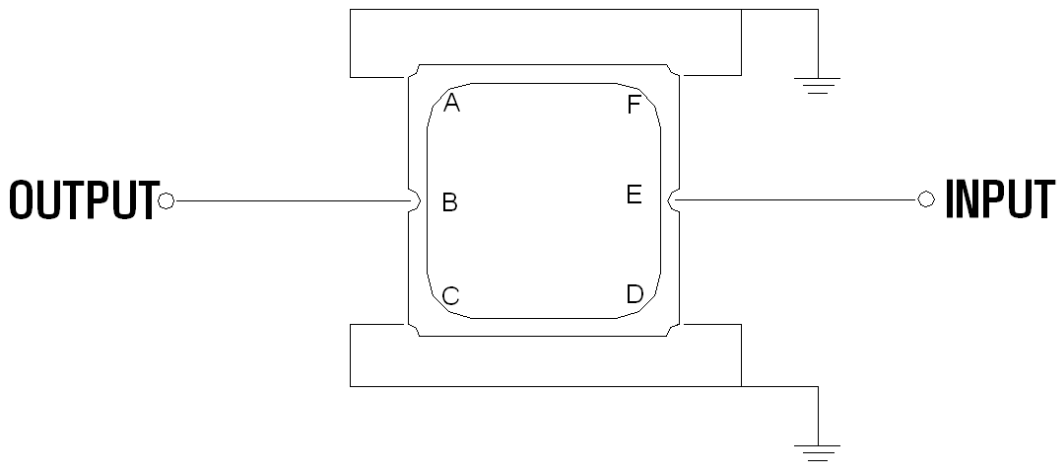
Package Dimensions



Marking Descriptions	
Z	Wireless Application
G	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

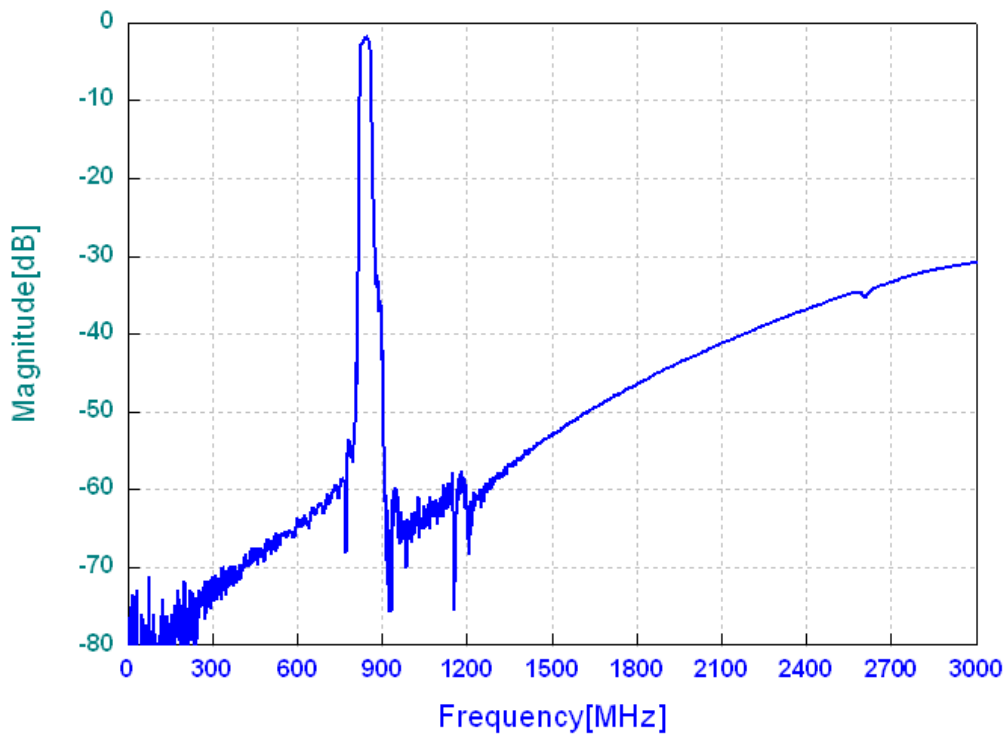
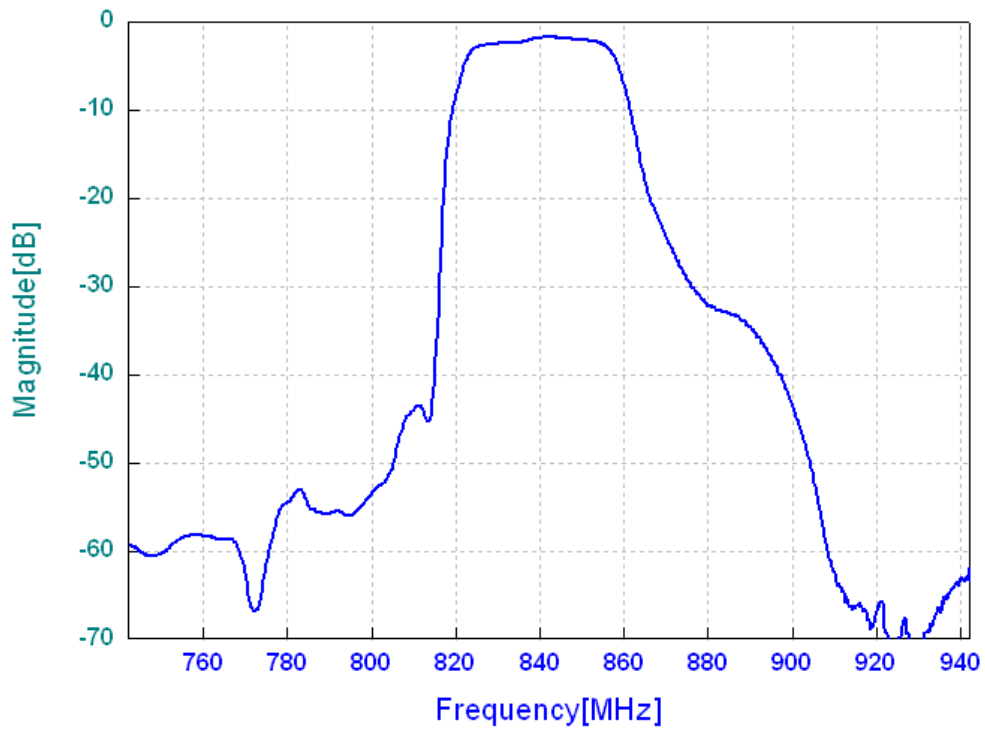
Testing Environment



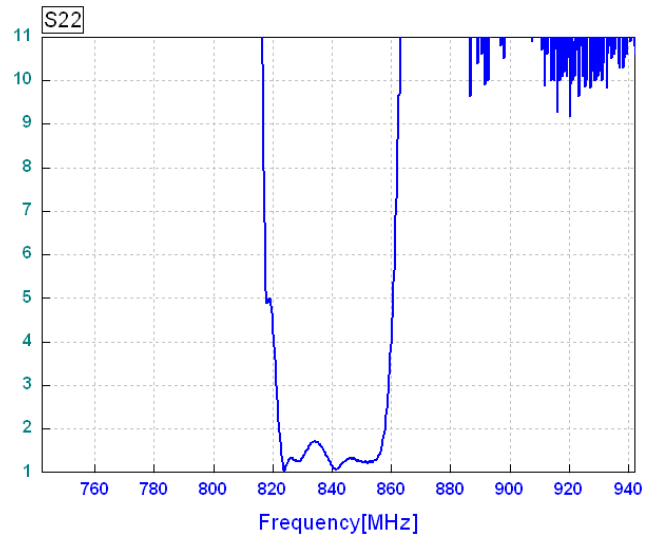
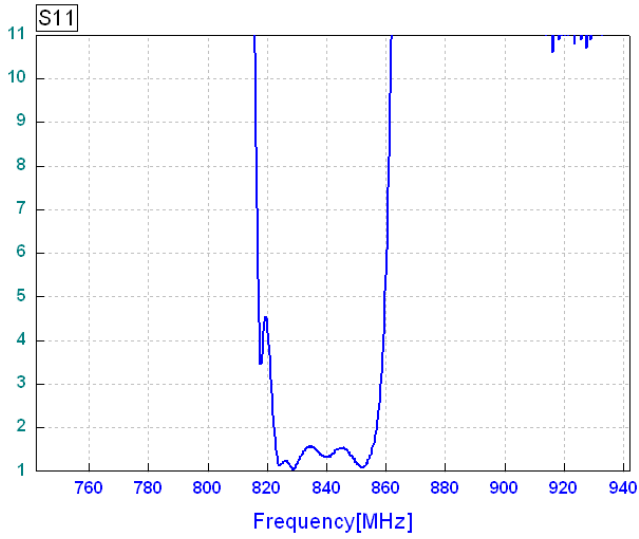
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

