



Total Solution Provider in Saw Device

SA806EM

Wireless, RF SAW Filter
Revision 0: April 2011



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

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□ Electrical Characteristics

Maximum Ratings

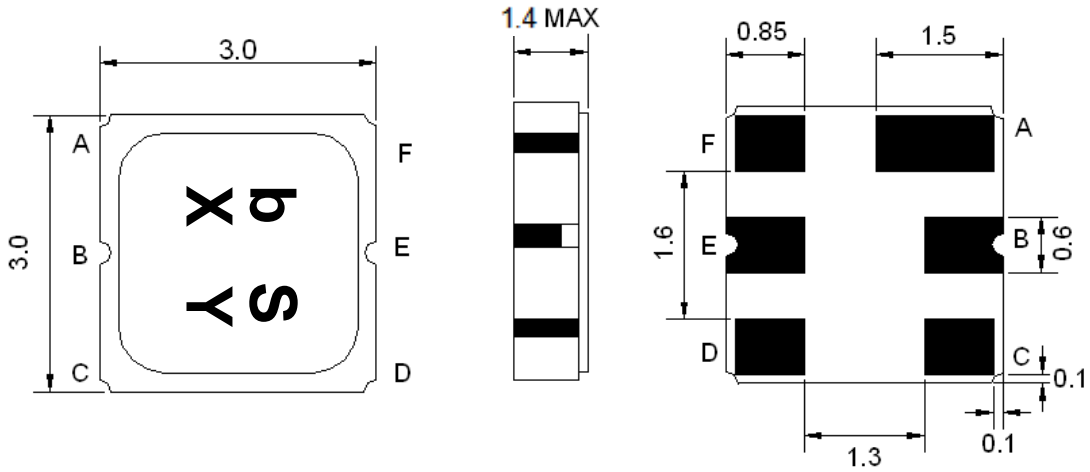
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	806.0	-
Insertion Loss within 791.0 ~ 821.0 MHz	dB	-	3.0	4.5
Amplitude Ripple within 791.0 ~ 821.0 MHz	dB _{p-p}	-	1.6	2.5
Return Loss within 791.0 ~ 821.0 MHz	dB	8	11	-
Attenuation:				
454.0 ~ 484.0 MHz	dB	45	60	-
1000.0 ~ 3000.0 MHz	dB	20	25	-
20.0 ~ 400.0 MHz	dB	45	60	-
959.5 ~ 989.5 MHz	dB	40	55	-
622.5 ~ 652.5 MHz	dB	40	60	-
832.0 ~ 862.0 MHz	dB	15	20	-

Notes : (1) No Matching Network .

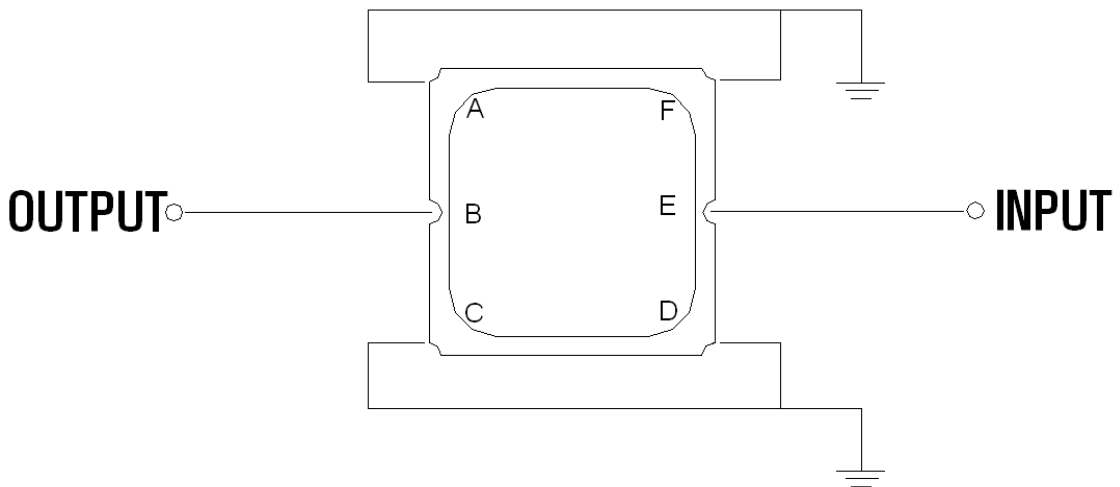
Package Dimensions



Marking Descriptions	
b	Wireless Application
S	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

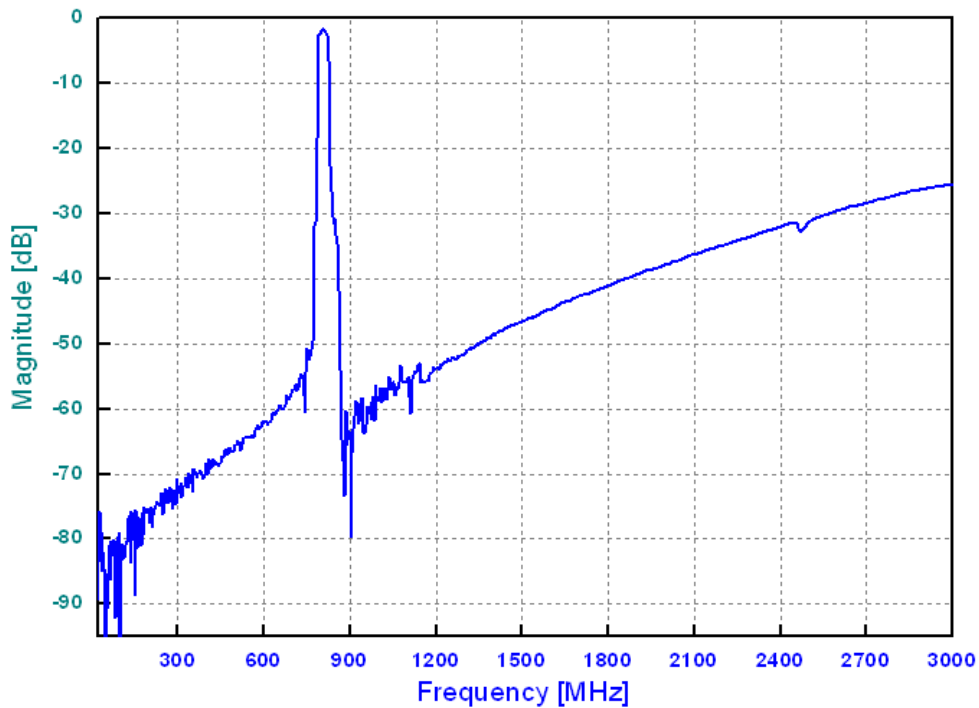
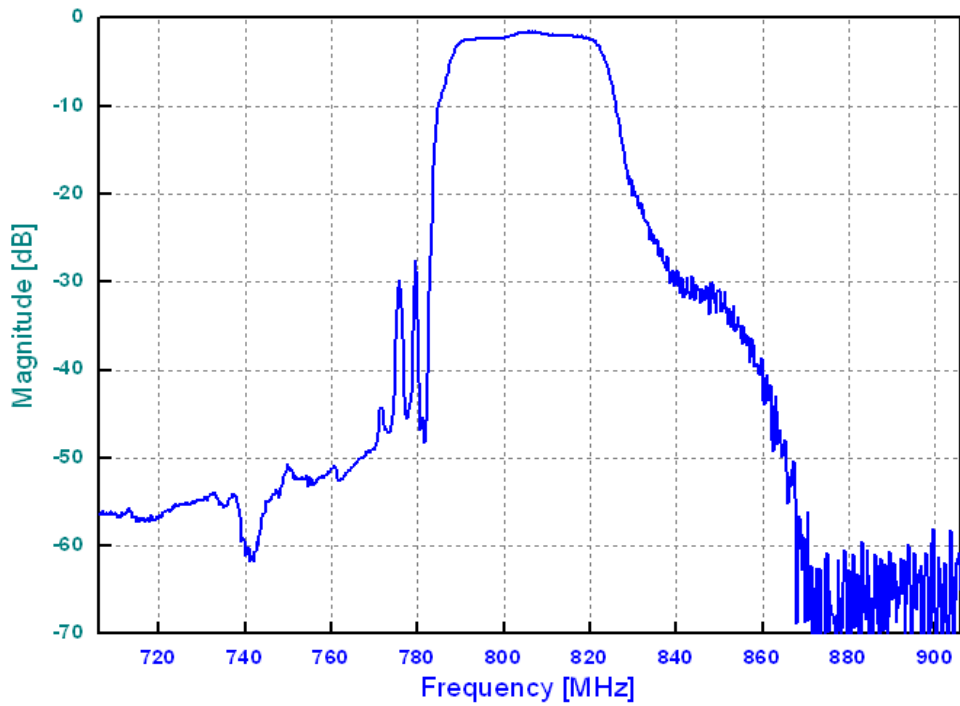
Testing Environment



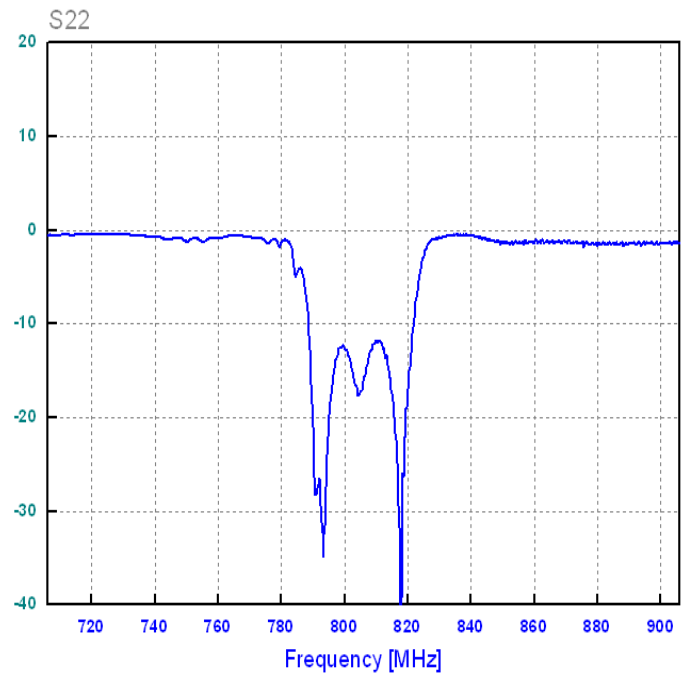
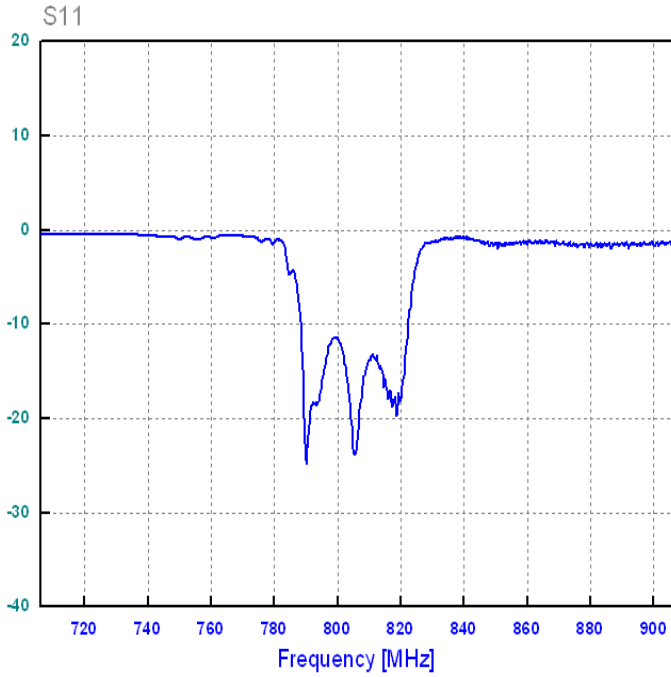
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

