



Total Solution Provider in Saw Device

SA853CM

Wireless, RF SAW Filter
Revision 0: December 2009



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

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□ Electrical Characteristics

Maximum Ratings

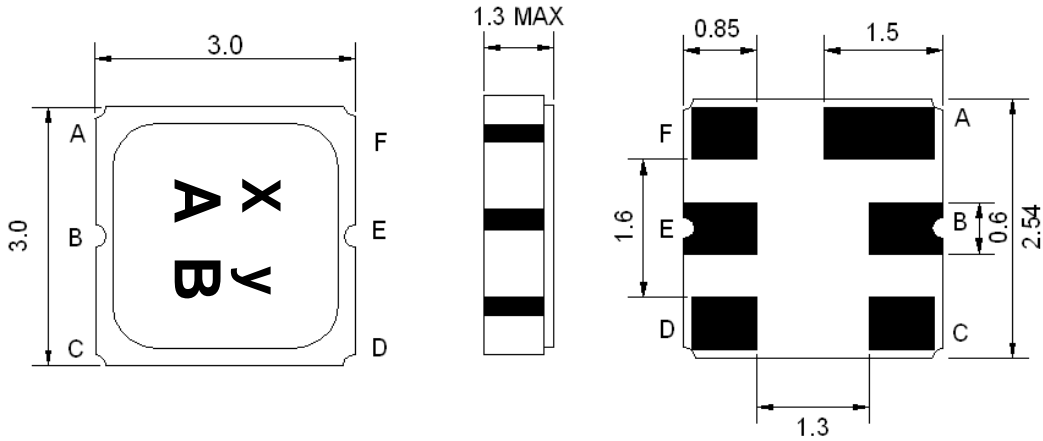
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	853.5	-
Insertion Loss within 843.5 ~ 863.5 MHz	dB	-	2.2	3.5
Group delay ripple within 843.5 ~ 863.5 MHz	ns _{p-p}	-	20	50
Amplitude Ripple within 843.5 ~ 863.5 MHz	dB _{p-p}	-	0.7	1.5
Attenuation:				
D.C. ~ 806 MHz	dB	45	55	-
806 ~ 811 MHz	dB	45	55	-
905 ~ 979 MHz	dB	35	45	-
1070 ~ 1089 MHz	dB	47	51	-
1089 ~ 3000 MHz	dB	27	32	-
VSWR within 843.5 ~ 863.5 MHz	-	-	1.9	2.5

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

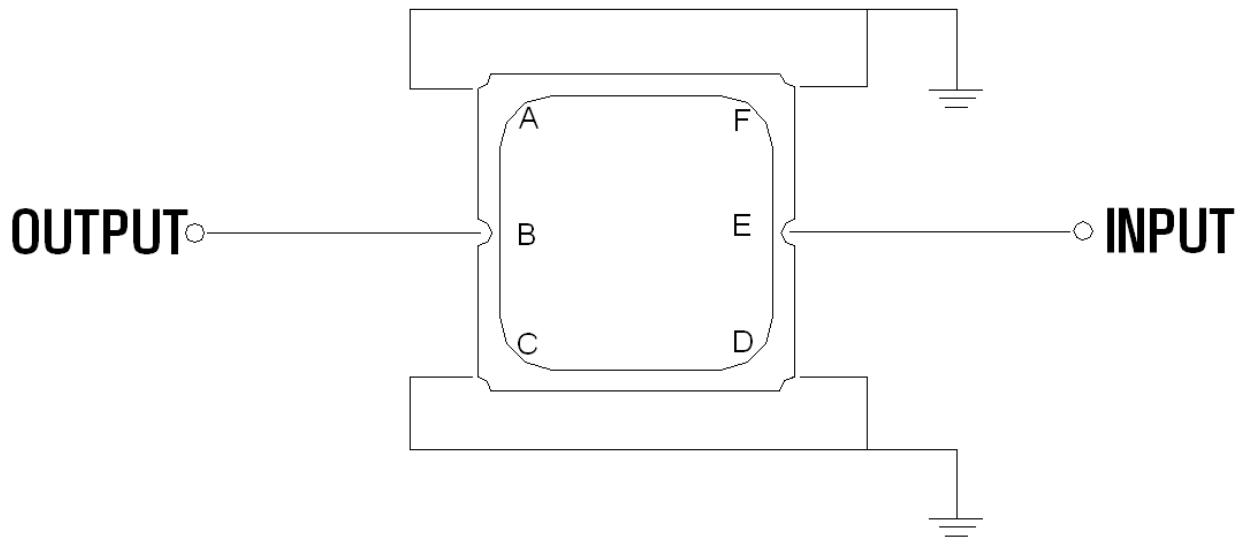
Package Dimensions



Marking Descriptions	
X	Wireless Application
y	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

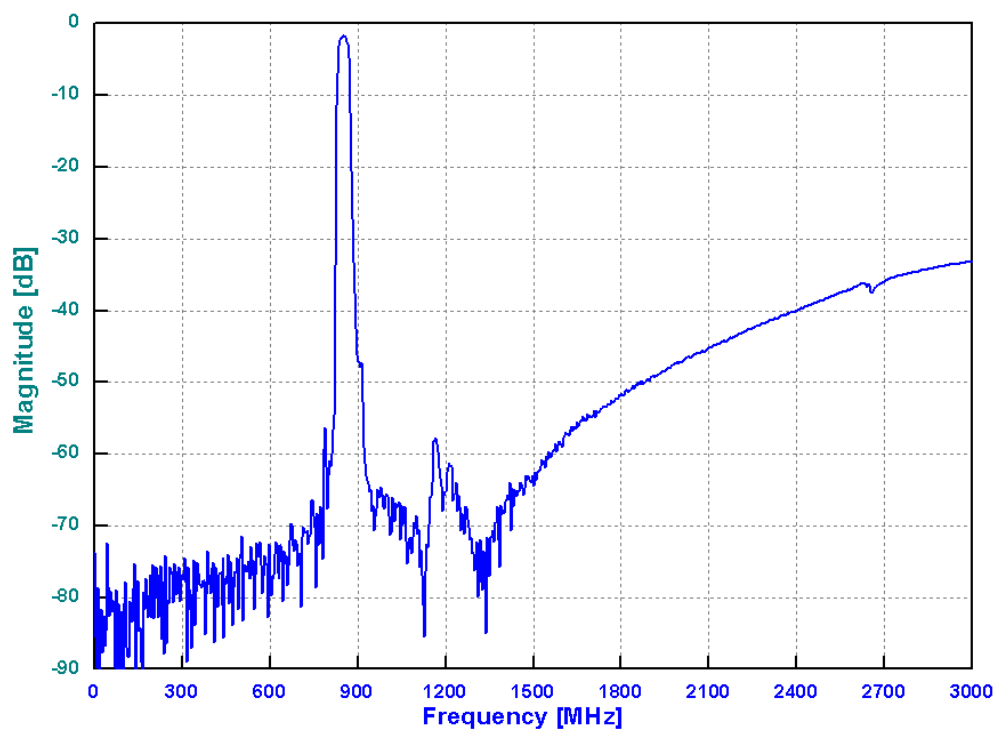
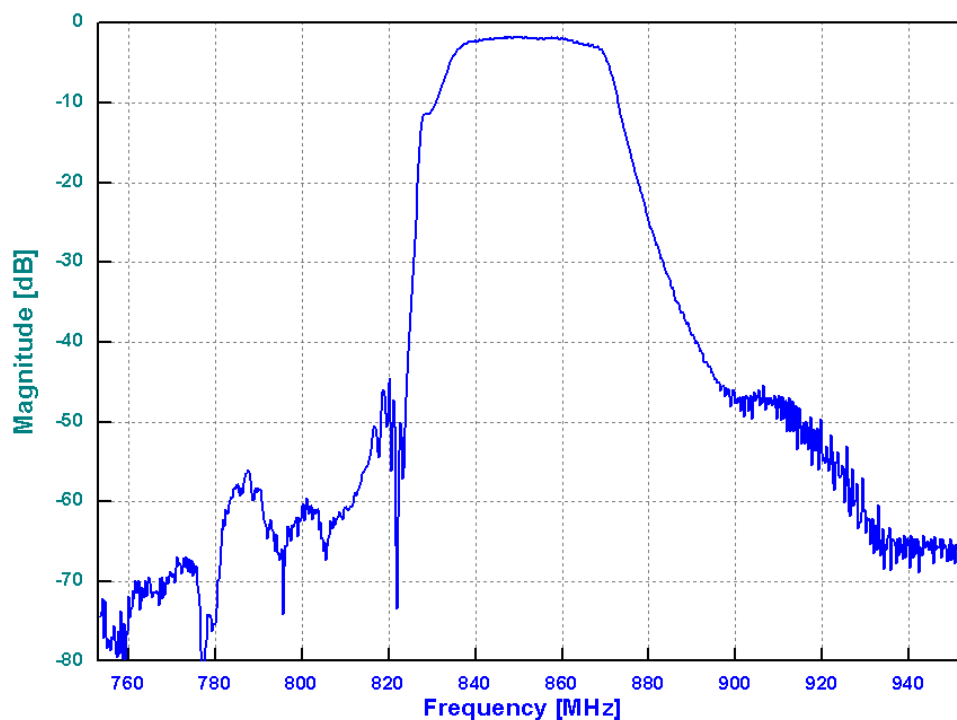
Testing Environment



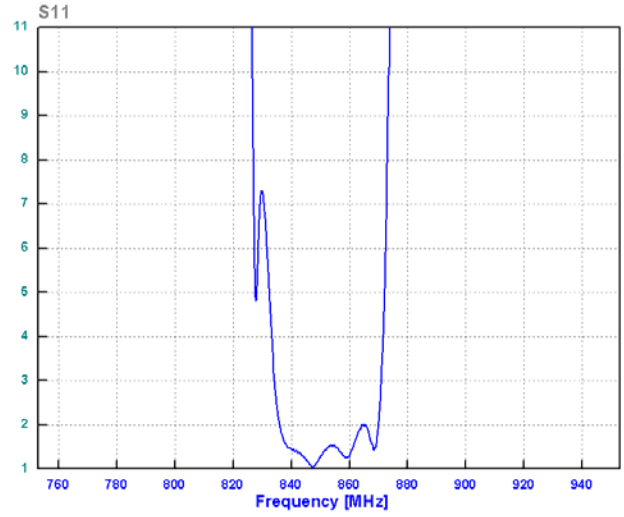
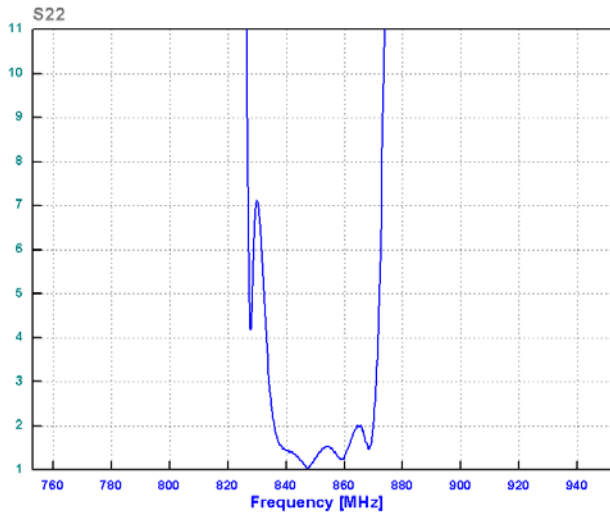
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

