



Total Solution Provider in Saw Device

SA785CM

Wireless, RF SAW Filter
Revision 1: December 2012



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

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□ Electrical Characteristics

Maximum Ratings

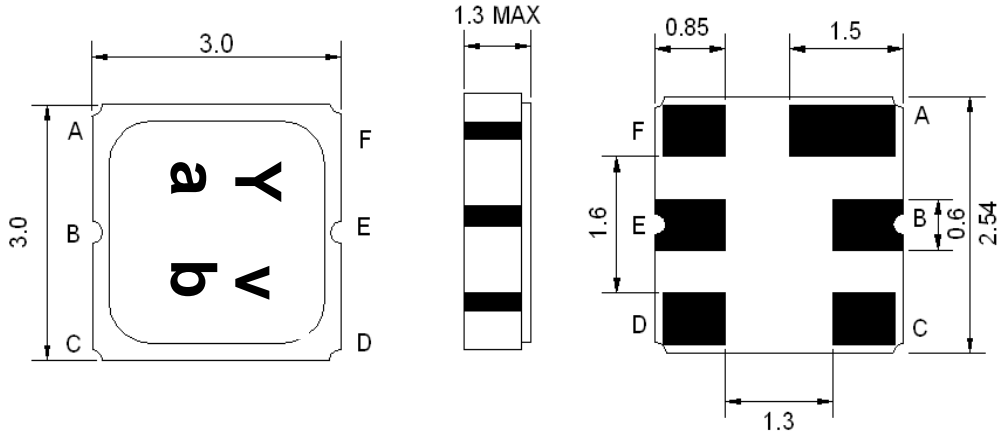
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	785.0	-
Insertion Loss within 776.0 ~ 794.0 MHz	dB	-	2.6	3.2
Amplitude Ripple within 776.0 ~ 794.0 MHz	dB _{p-p}	-	1.0	1.5
Attenuation:				
0.3~746.0 MHz (Low Side Rejection)	dB	40	50	-
746.0~764.0 MHz (Rx Band Rejection)	dB	30	37	-
916.0 ~934.0 MHz (Rx Image Rejection)	dB	40	55	-
944.0~962.0 MHz (Tx LO Rejection)	dB	45	55	-
1113.0~1131.0 MHz (Tx Image Rejection)	dB	40	50	-
1131.0~3000.0 MHz (High Side Rejection)	dB	25	30	-
Return Loss within 776.0 ~ 794.0 MHz	dB	8	10	-

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

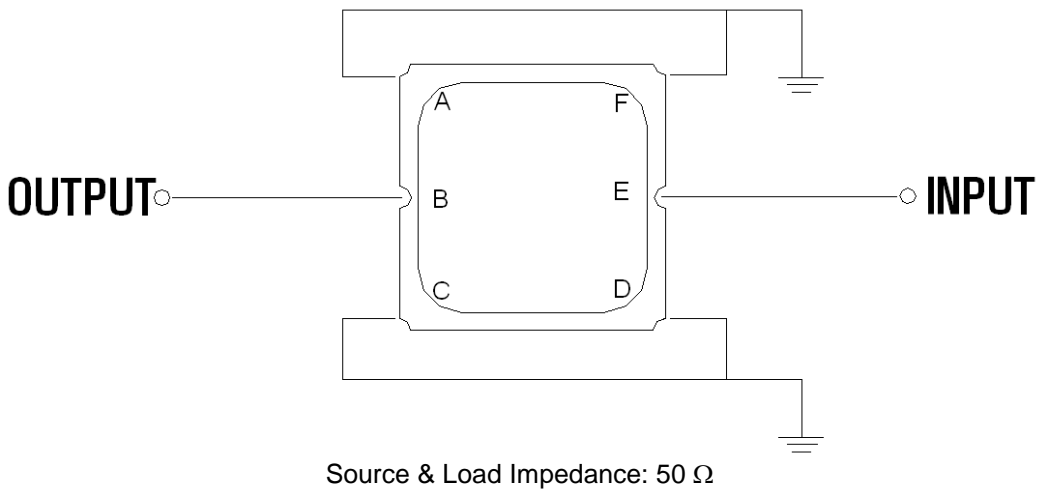
Package Dimensions



Marking Descriptions	
Y	Wireless Application
v	Series Number
a	Date Code(Year)
b	Date Code(Month)

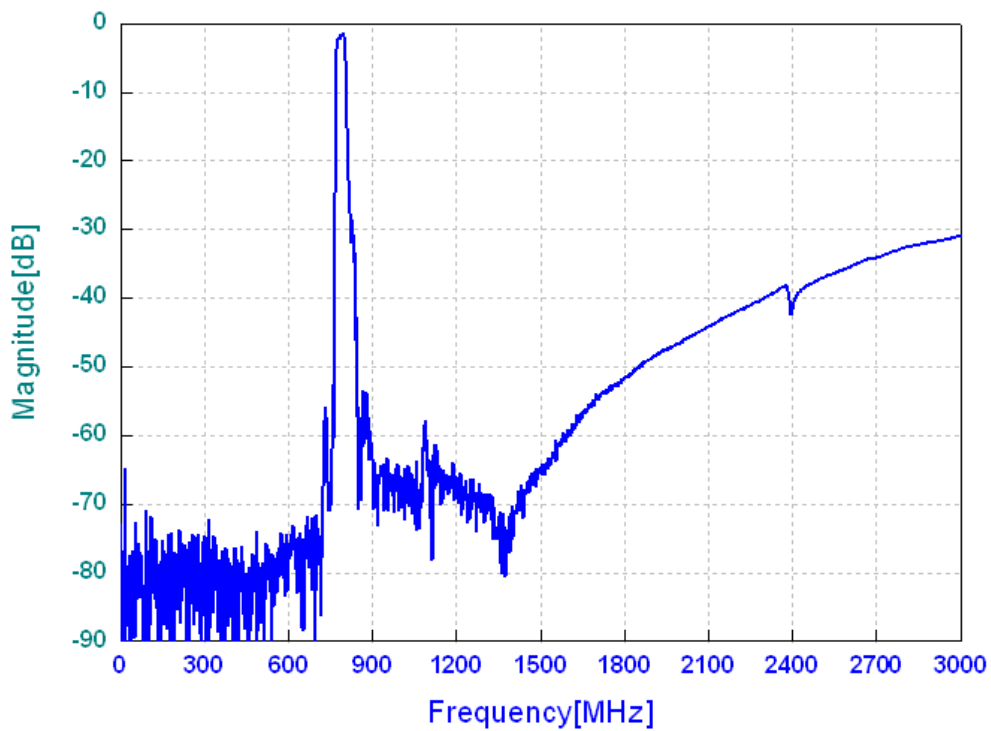
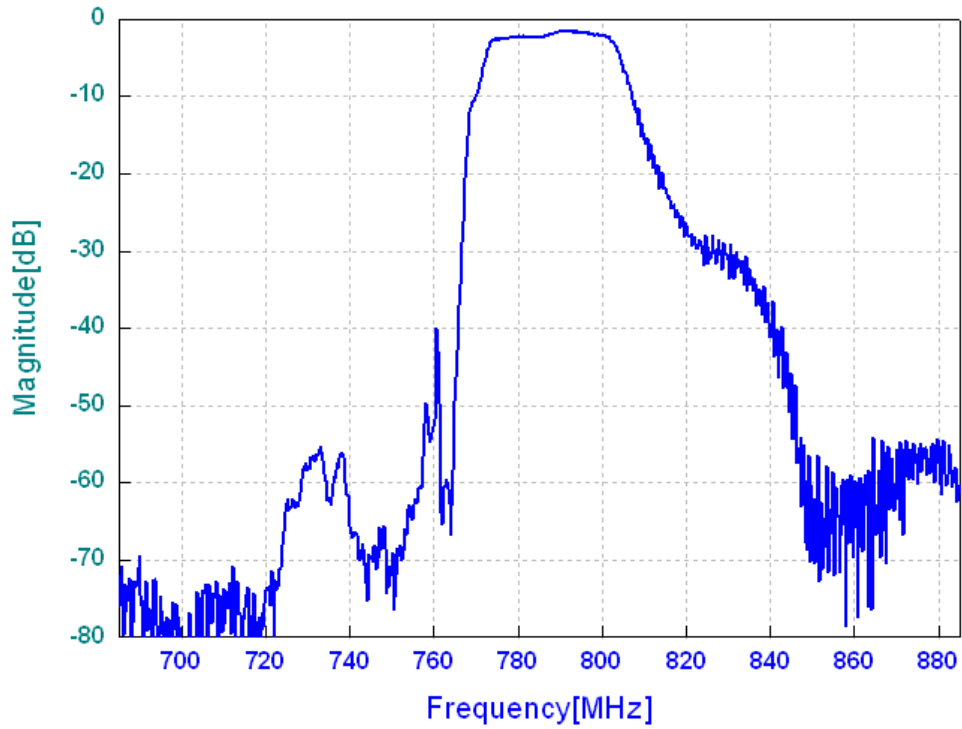
Pin Description	
A, C, D, F	Ground
E	In or Out
B	Out or In

Testing Environment

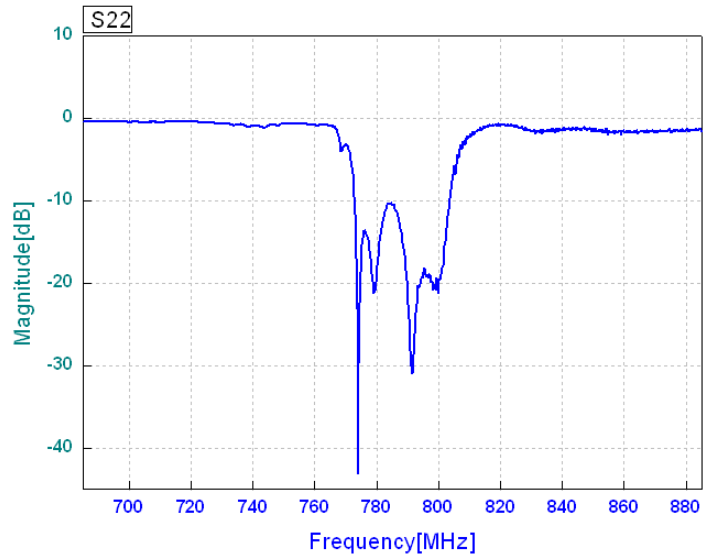
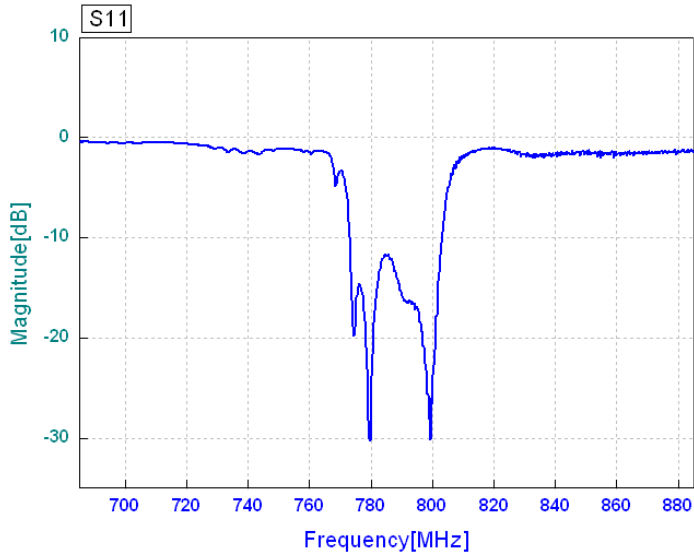


□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

