



Total Solution Provider in Saw Device

SA1650AM

Wireless, RF SAW Filter
Revision 0: September 2008



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

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□ Electrical Characteristics

Maximum Ratings

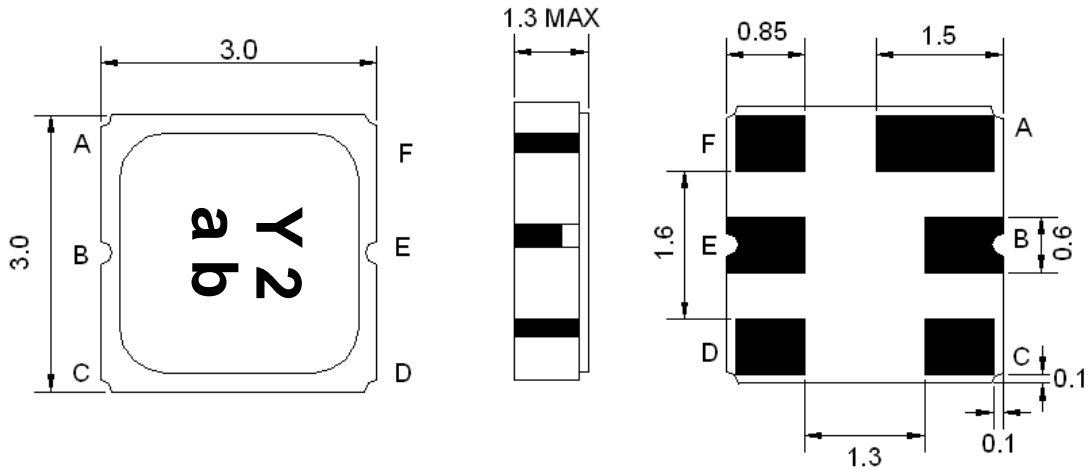
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	13
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	1650.8	-
Insertion Loss within 1626.6 ~ 1675.0 MHz	dB	-	2.3	3.0
Amplitude Ripple within 1626.6 ~ 1675.0 MHz	dB _{p-p}	-	1.3	2.0
Return Loss within 1626.6 ~ 1675.0 MHz	dB	8	11	-
Attenuation:				
D.C ~ 1559.0 MHz	dB	30	32	-
1576.5 MHz	dB	31	50	-
1751.0 MHz	dB	35	40	-
2400.0 ~ 2500.0 MHz	dB	30	45	-

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

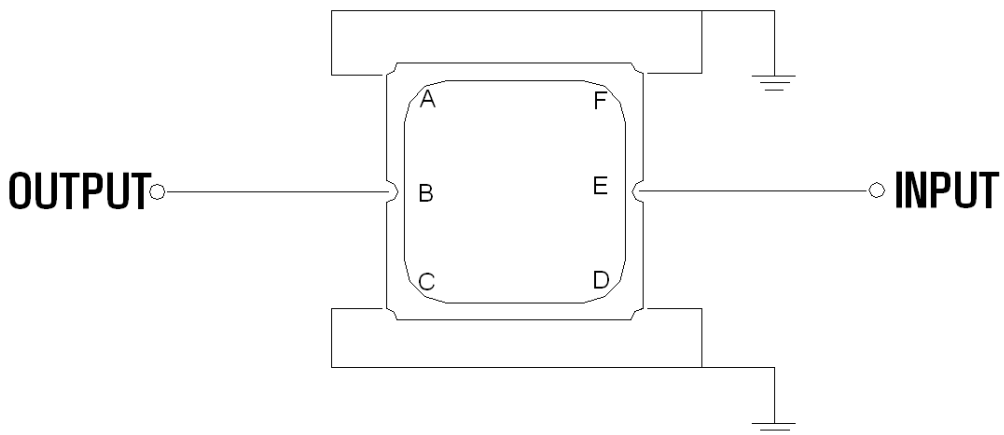
Package Dimensions



Marking Descriptions	
Y	Wireless Application
2	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

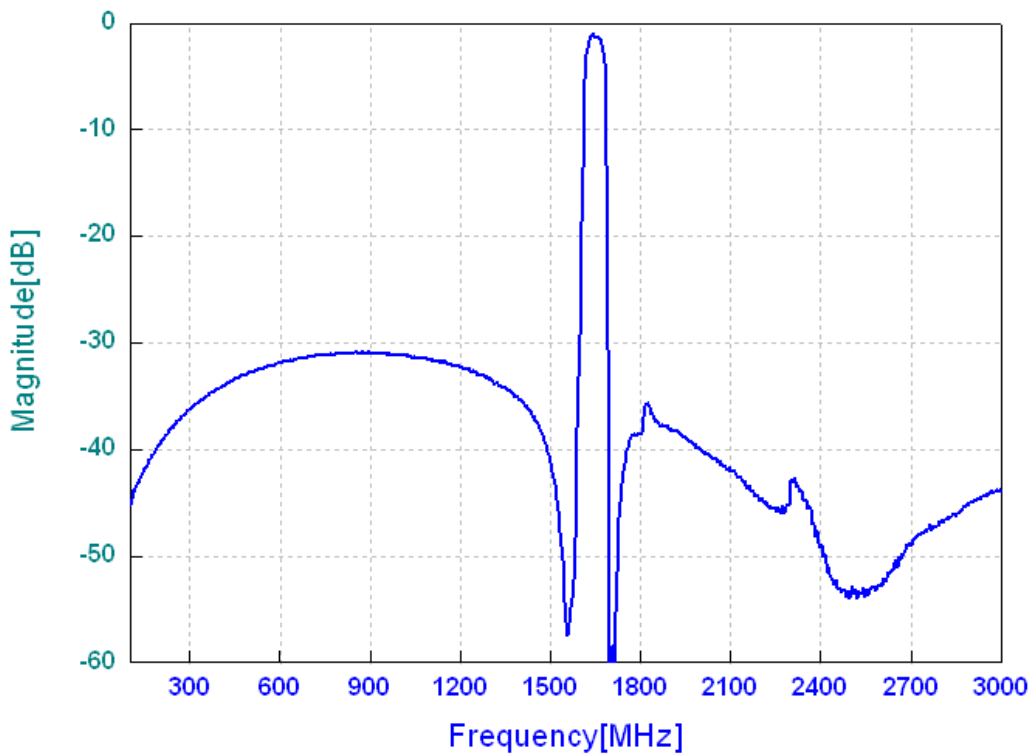
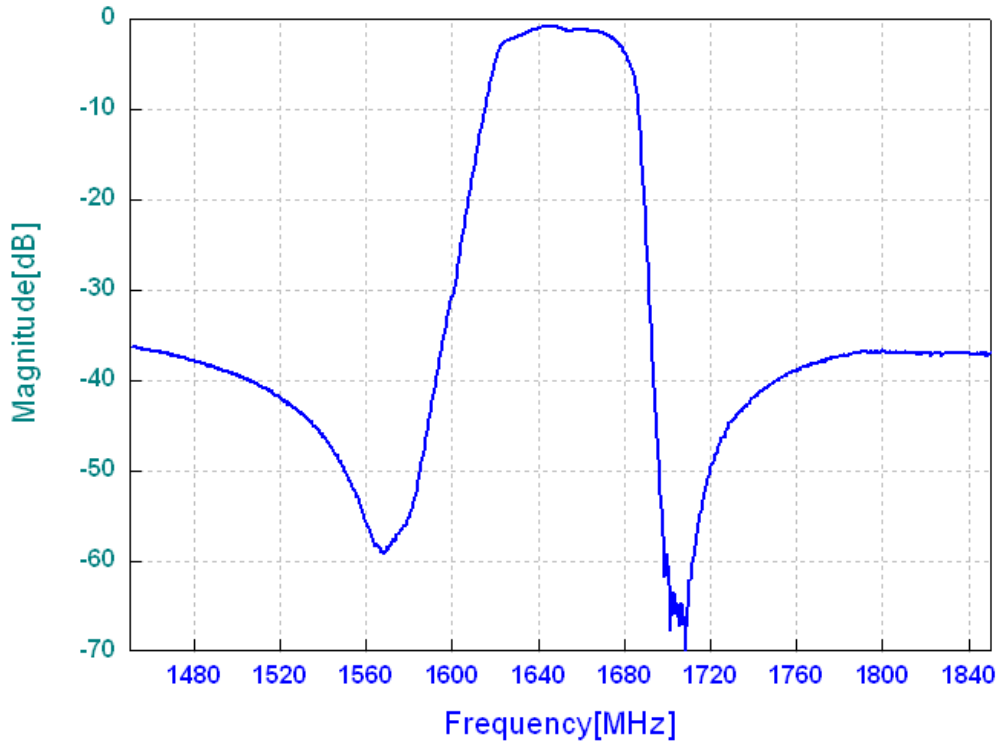
Testing Environment



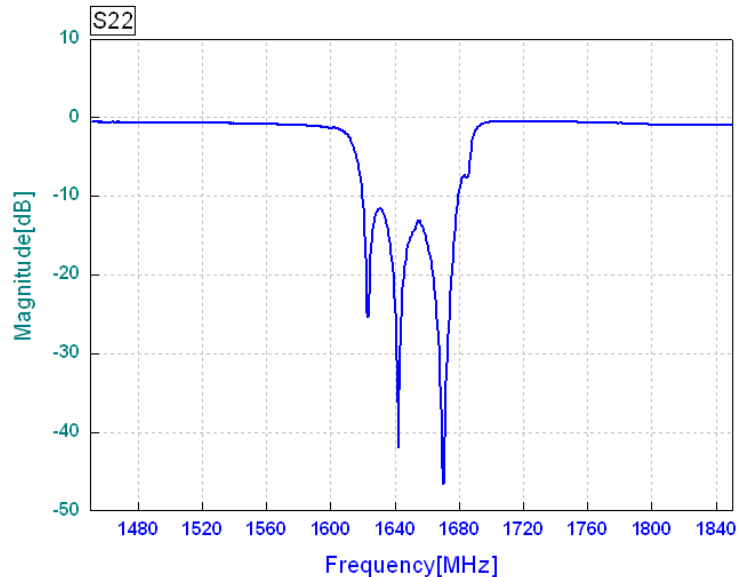
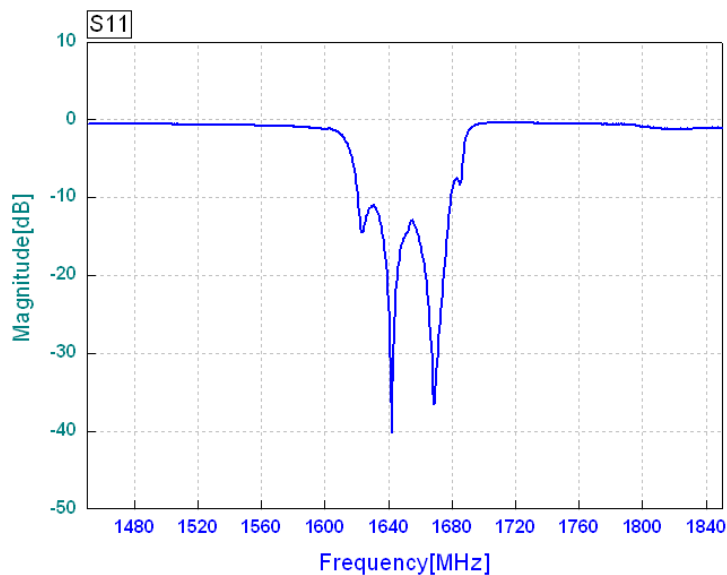
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

