



Total Solution Provider in Saw Device

SA1643AM1

Wireless, Balanced RF SAW Filter
Revision 0: OCTOBER 2007



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

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□ Electrical Characteristics

Maximum Ratings

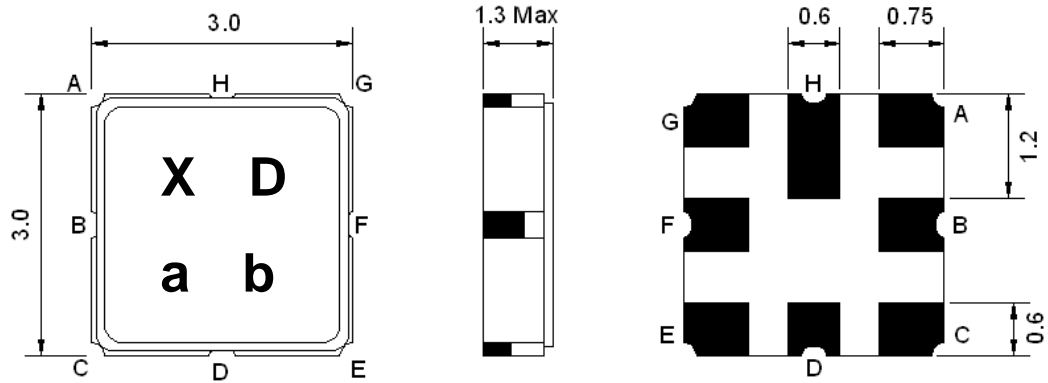
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (balanced ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M1			
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	-	1643.5	-
Insertion Loss within 1626.5 ~ 1660.5 MHz	dB	-	3.2	4.0
Amplitude Ripple within 1626.5 ~ 1660.5 MHz	dB _{p-p}	-	0.6	1.5
Attenuation:				
D.C. ~ 1000.0 MHz	dB	50	60	-
1000.0 ~ 1575.0 MHz	dB	35	40	-
1575.0 ~ 1590.0 MHz	dB	20	33	-
1700.0 ~ 1750 MHz	dB	20	30	-
1750.0 ~ 1885.0 MHz	dB	37	45	-
1885.0 ~ 2200.0 MHz	dB	30	44	-
2200.0 ~ 2500.0 MHz	dB	28	38	-
2500.0 ~ 40000.0 MHz	dB	20	30	-
Input / Output VSWR within 1626.5 ~ 1660.5 MHz	-	-	1.7	2.2

Notes : (1) No Matching Network .

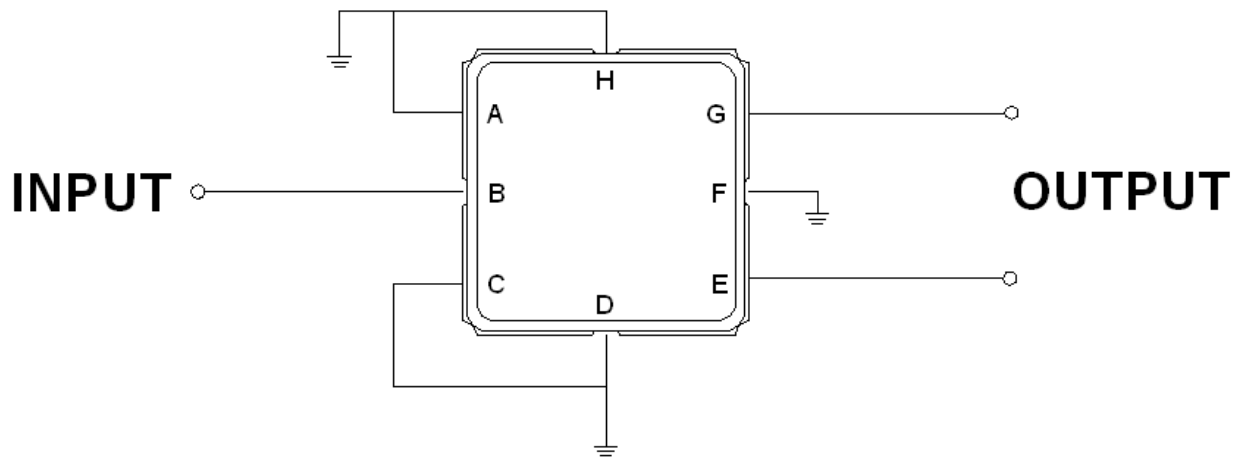
Package Dimensions



Marking Descriptions	
X	Wireless Application
D	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

Testing Environment

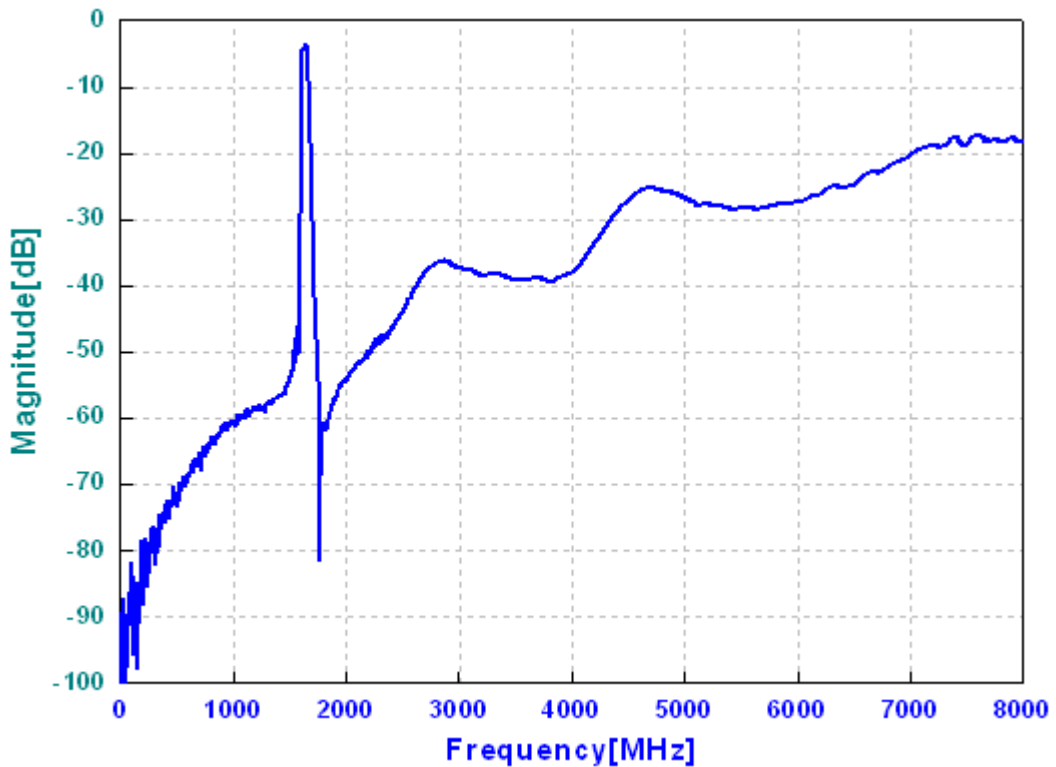
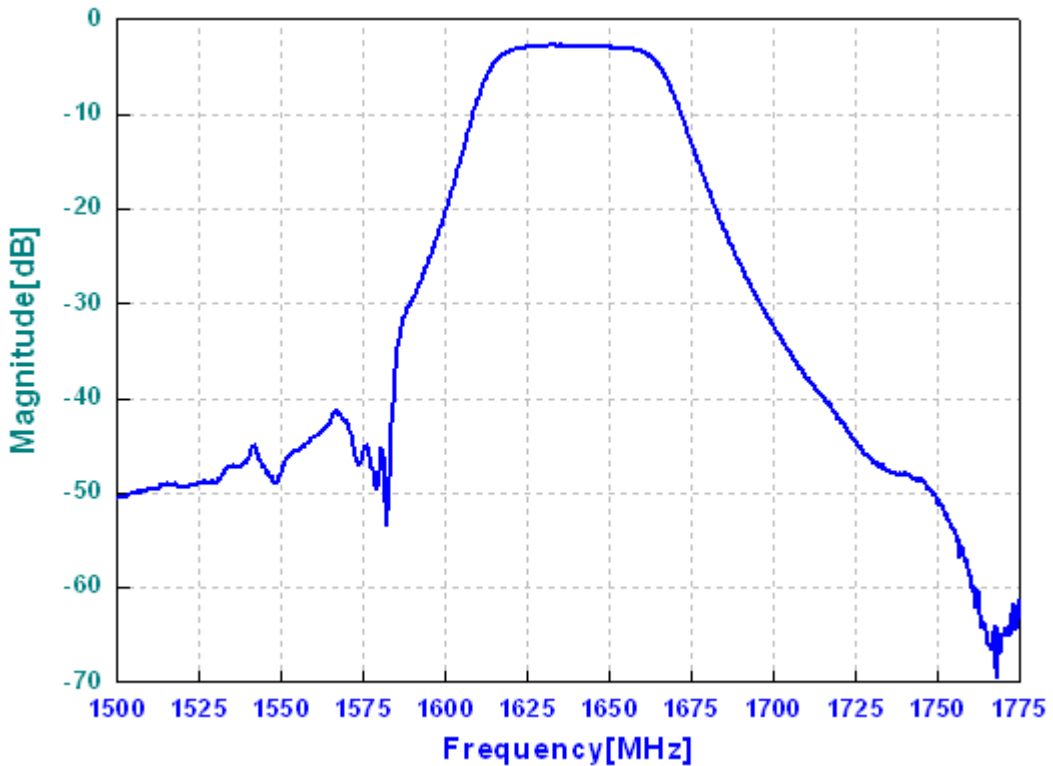


Source Impedance : 50 Ω

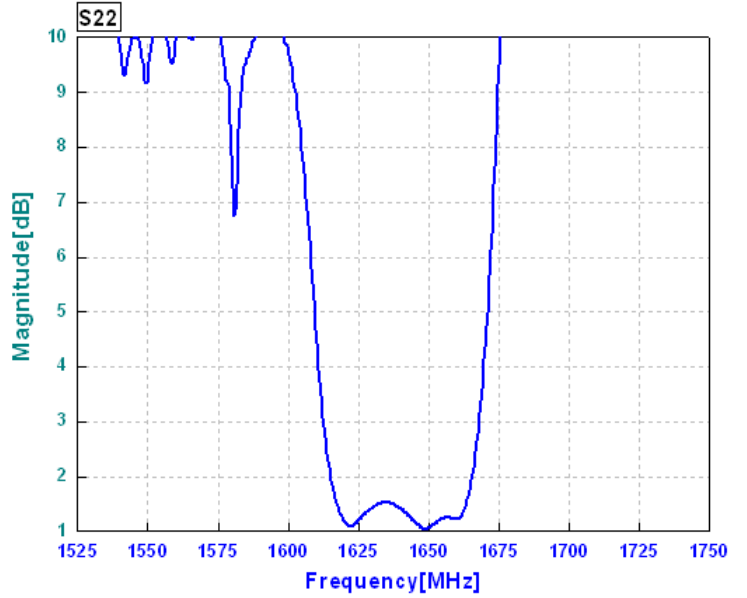
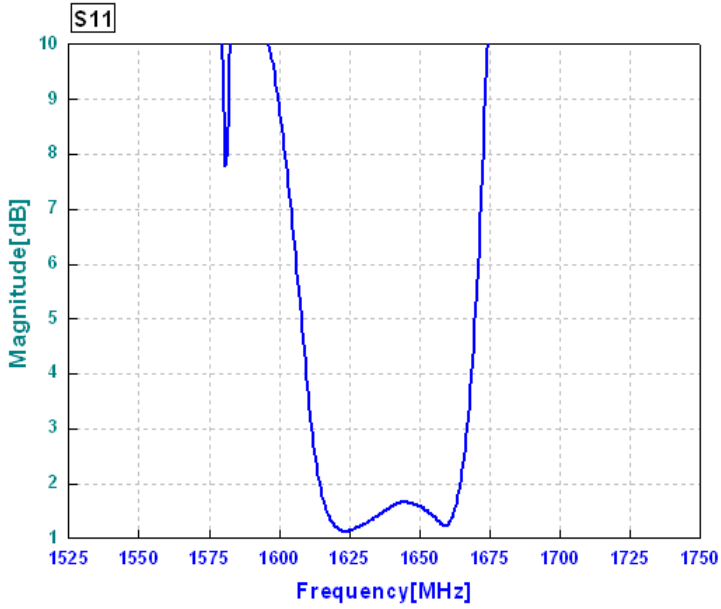
Load Impedance : 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

