



Total Solution Provider in Saw Device

SA2050AM1

Wireless, RF SAW Filter
Revision 0: June 2010



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

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□ Electrical Characteristics

Maximum Ratings

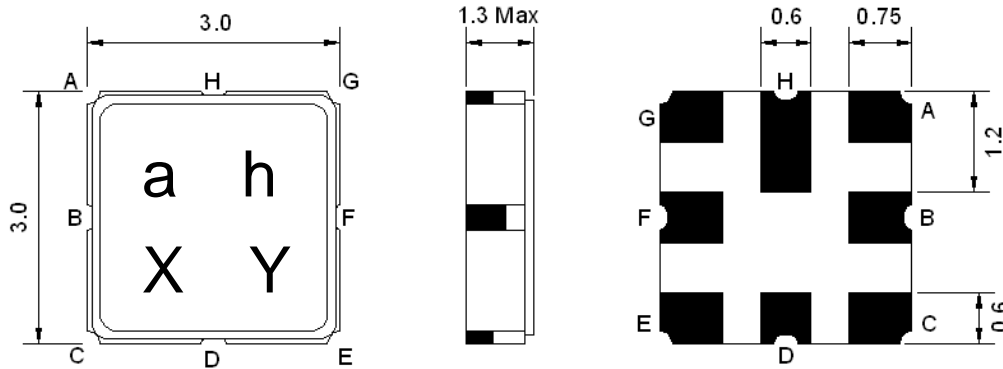
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M1			
Length x Width	-	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2050.0	-
Insertion Loss within 2020.0 ~ 2080.0 MHz	dB	-	2.7	4.5
Amplitude Ripple within 2020.0 ~ 2080.0 MHz	dB _{p-p}	-	1.5	3.0
Group Delay Variation within 2020.0 ~ 2080.0 MHz	ns _{p-p}	-	7	40
Attenuation:				
D.C ~ 1700.0 MHz	dB	20	28	-
1700.0 ~ 1990.0 MHz	dB	20	30	-
2110.0 ~ 2170.0 MHz	dB	20	45	-
2170.0 ~ 2400.0 MHz	dB	25	35	-
2400.0 ~ 3000.0 MHz	dB	25	37	-

Notes : (1) No Matching Network

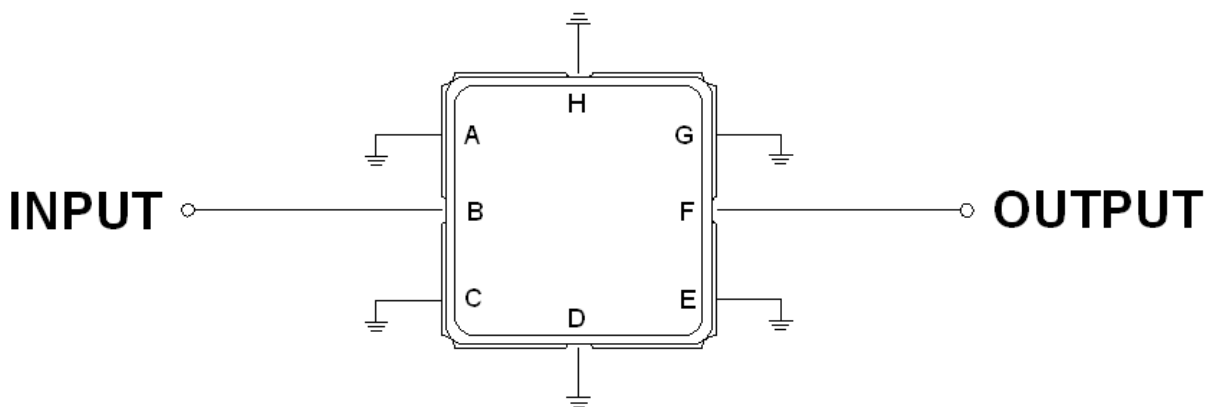
□ Package Dimensions



Marking Descriptions	
a	Wireless Application
h	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

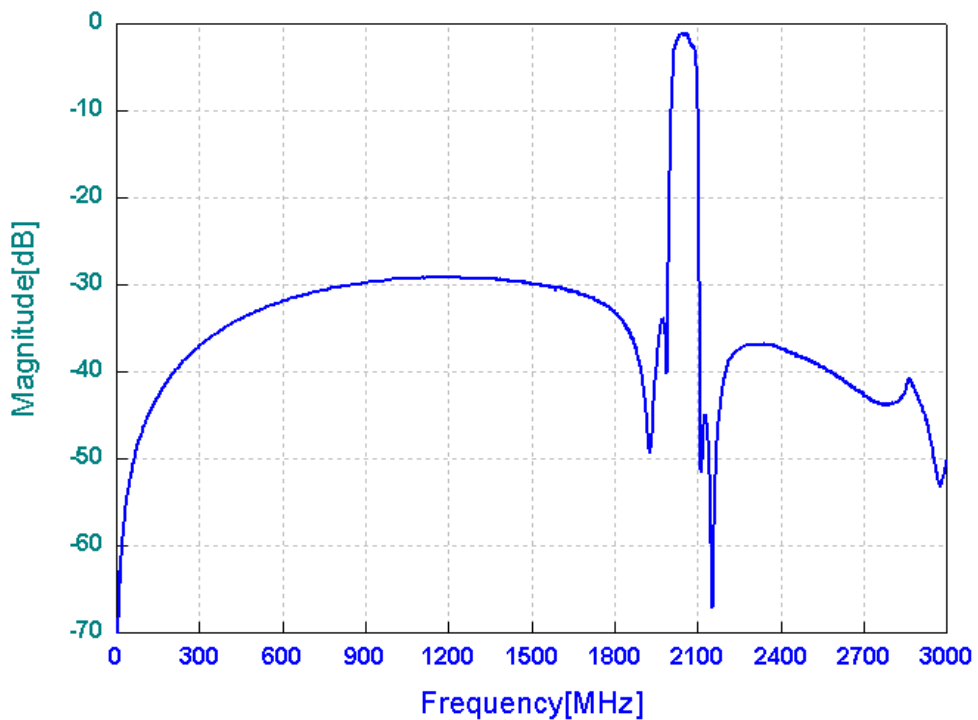
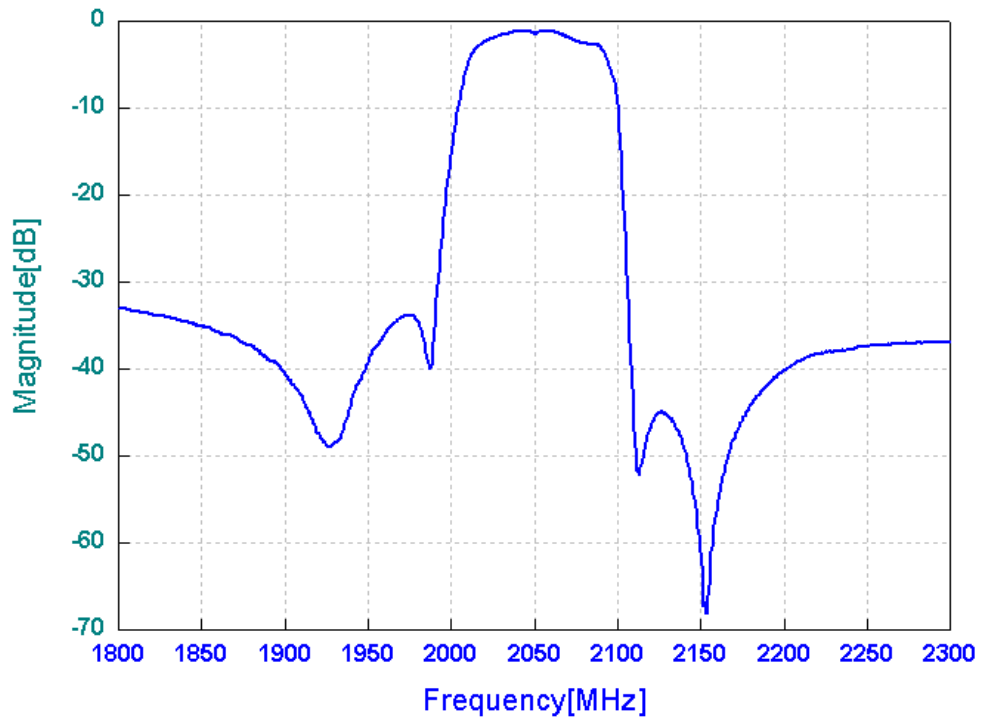
□ Testing Environment



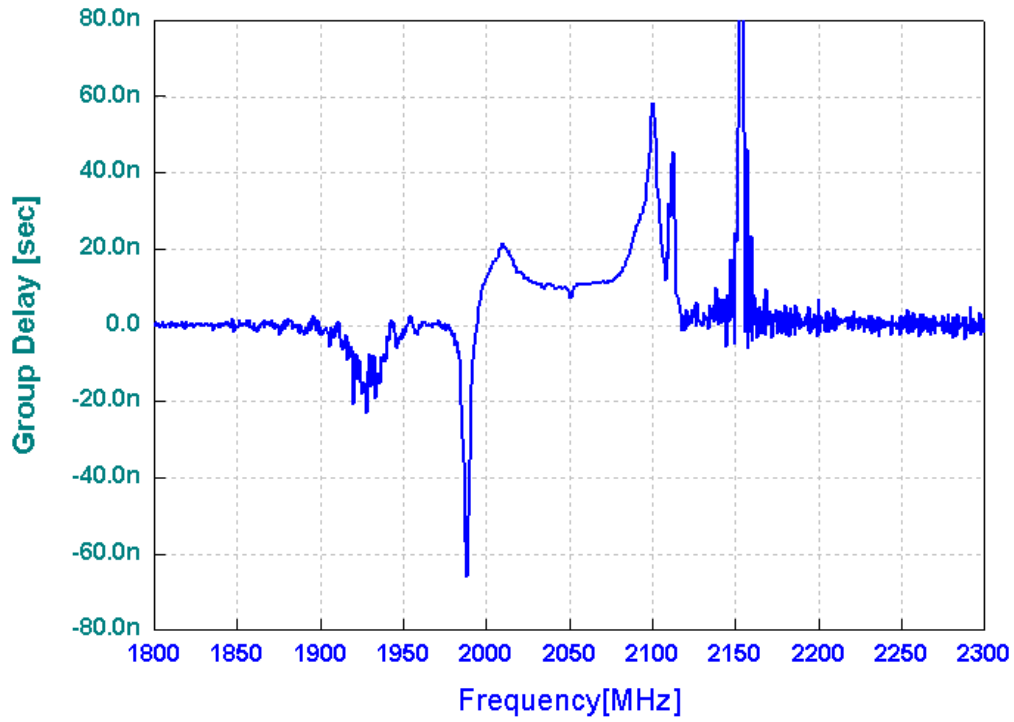
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Group Delay



Smith Chart

