



Total Solution Provider in Saw Device

SA1030EM

Wireless, RF SAW Filter
Revision 0: April 2012



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

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□ Electrical Characteristics

Maximum Ratings

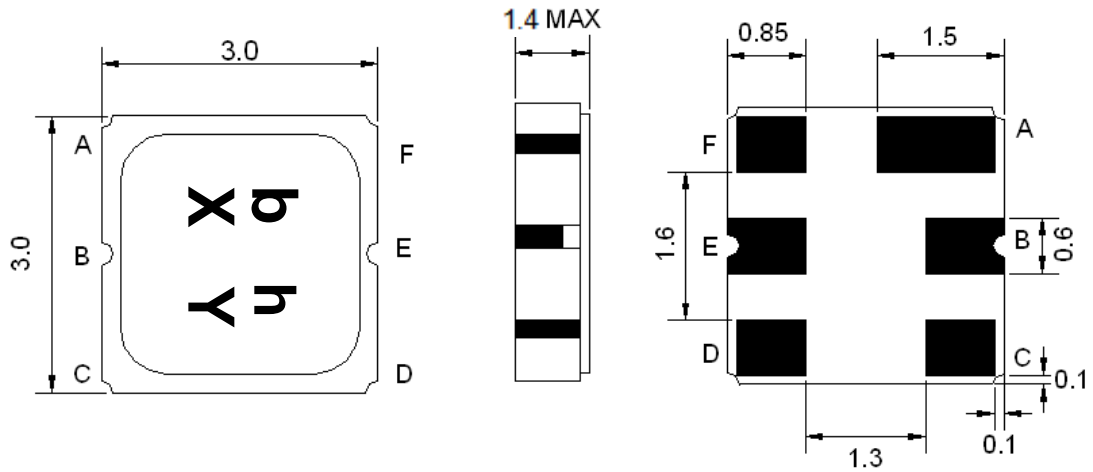
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	1030.0	-
Insertion Loss within 1026.0 ~ 1034.0 MHz	dB	-	2.6	3.8
Amplitude Ripple within 1026.0 ~ 1034.0 MHz	dB _{p-p}	-	0.4	2.0
Group Delay Ripple within 1026.0 ~ 1034.0 MHz	ns _{p-p}	-	26	80
Attenuation:				
DC ~ 950.0 MHz	dB	35	42	-
950.0 ~ 1005.0 MHz	dB	33	42	-
1005.0 ~ 1020.0 MHz	dB	1	5	-
1040.0 ~ 1055.0 MHz	dB	3	15	-
1055.0 ~ 1150.0 MHz	dB	40	52	-
1150.0 ~ 1300.0 MHz	dB	35	47	-
VSWR within 1026.0 ~ 1034.0 MHz	-	-	1.5	2.1

Notes : (1) No Matching Network .

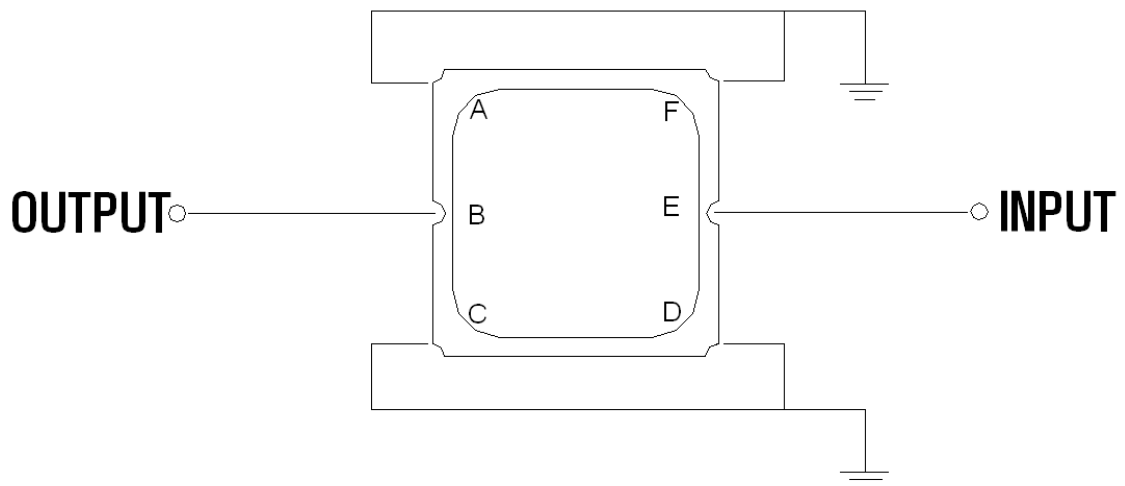
Package Dimensions



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

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

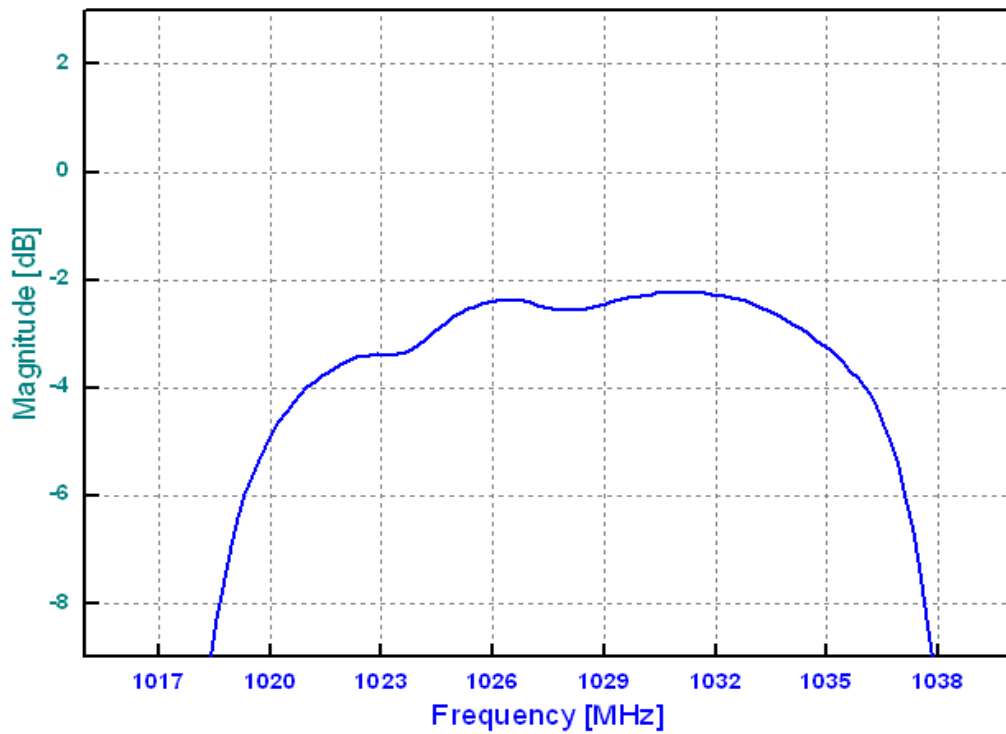
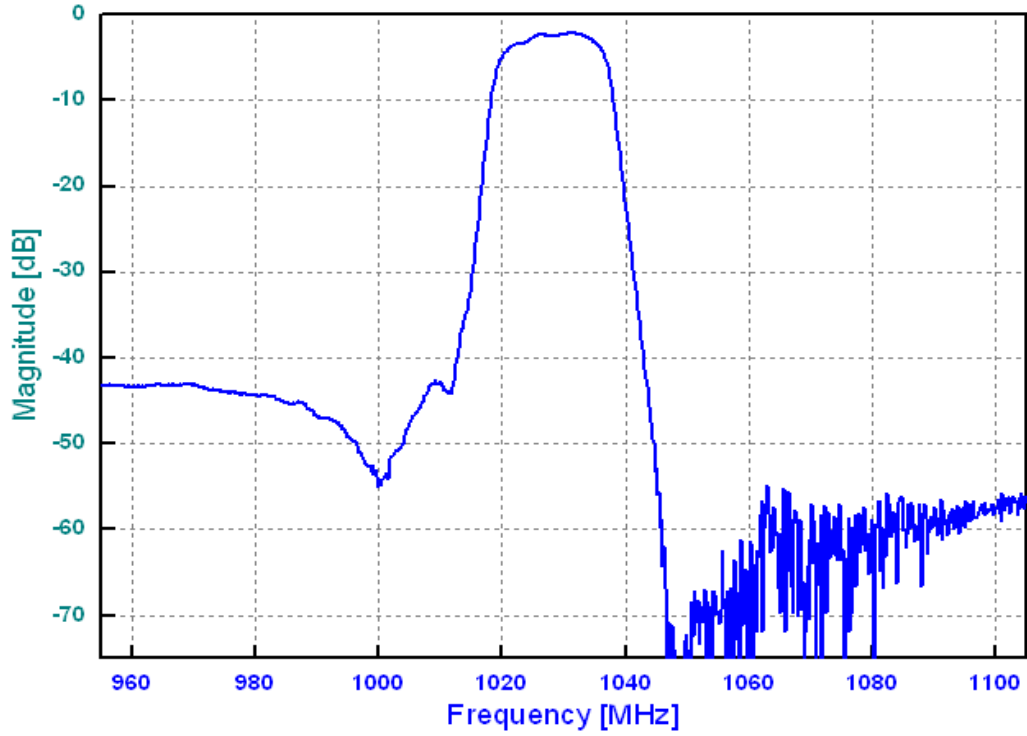
Testing Environment



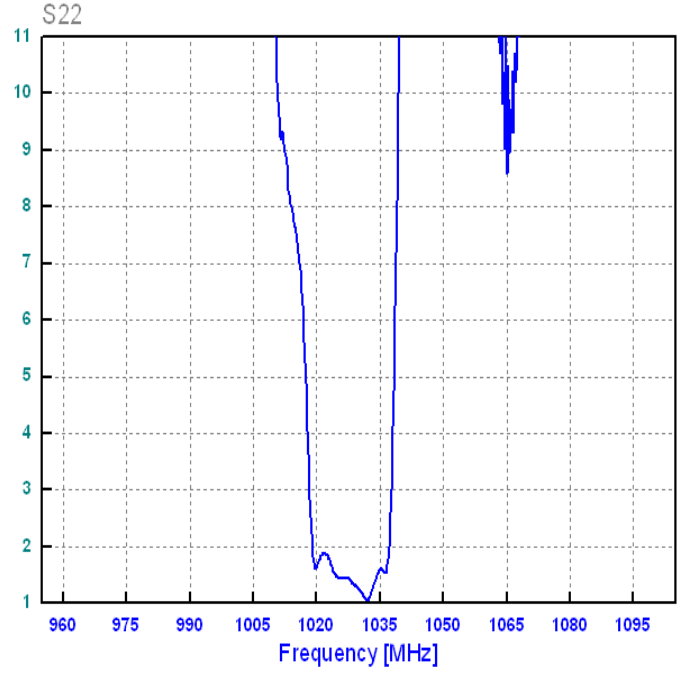
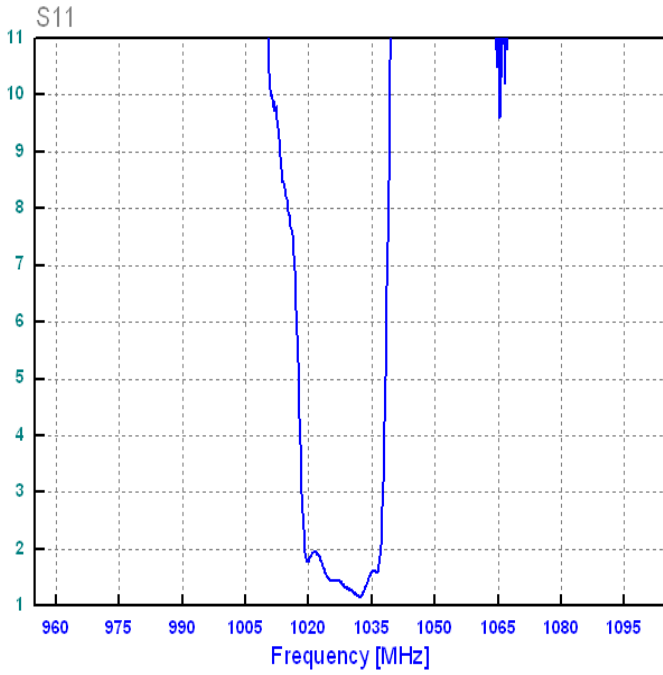
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

