



*Total Solution Provider in Saw Device*

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# SA1030CM

Wireless, RF SAW Filter  
Revision 0: May 2011



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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**SAWNICS Inc.**

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460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.  
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / [www.sawnics.com](http://www.sawnics.com)

## □ Electrical Characteristics

### Maximum Ratings

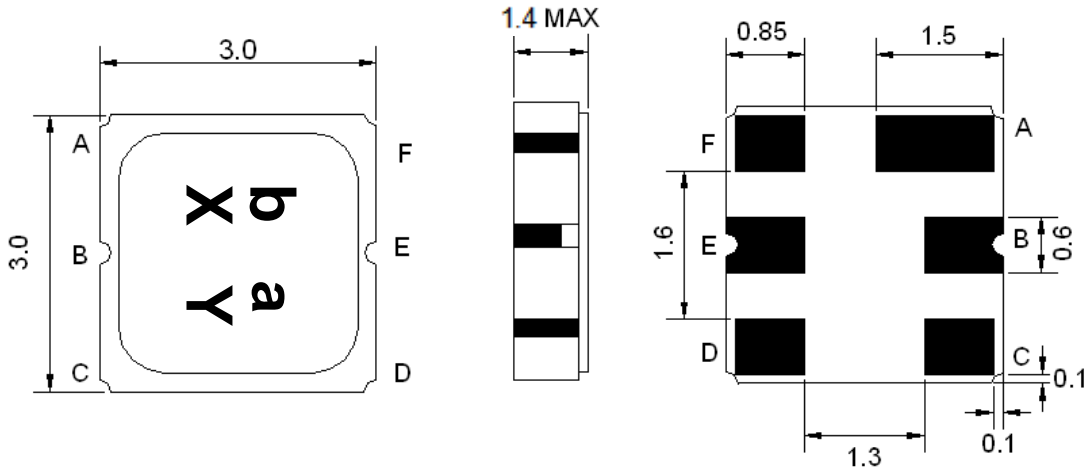
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M			
Length x Width	mm <sup>2</sup>	-	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 ~ 10340 MHz	dB	-	1.5	3.5
Amplitude Ripple within 1026.0 ~ 10340 MHz	dB <sub>p-p</sub>	-	0.4	1.0
Group Delay Ripple within 1026.0 ~1034.0 MHz	ns <sub>p-p</sub>	-	9	40
<b>Attenuation:</b>				
DC ~ 988.0 MHz	dB	33	35	-
900.0 ~ 920.0 MHz	dB	33	35	-
1008.0 MHz	dB	15	28	-
1053.0 MHz	dB	5	9	-
1073.0 ~ 1200.0 MHz	dB	33	35	-
1200.0 ~ 2060.0 MHz	dB	30	35	-
VSWR within 1026.0 ~1034.0 MHz	-	-	1.3	2.0

**Notes :** (1) No Matching Network .

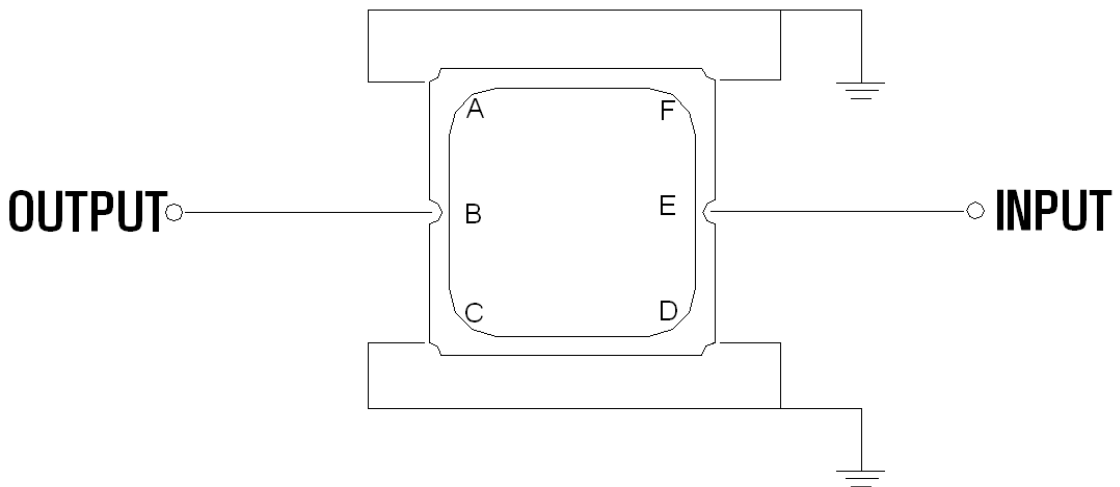
**Package Dimensions**



Marking Descriptions	
b	Wireless Application
a	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

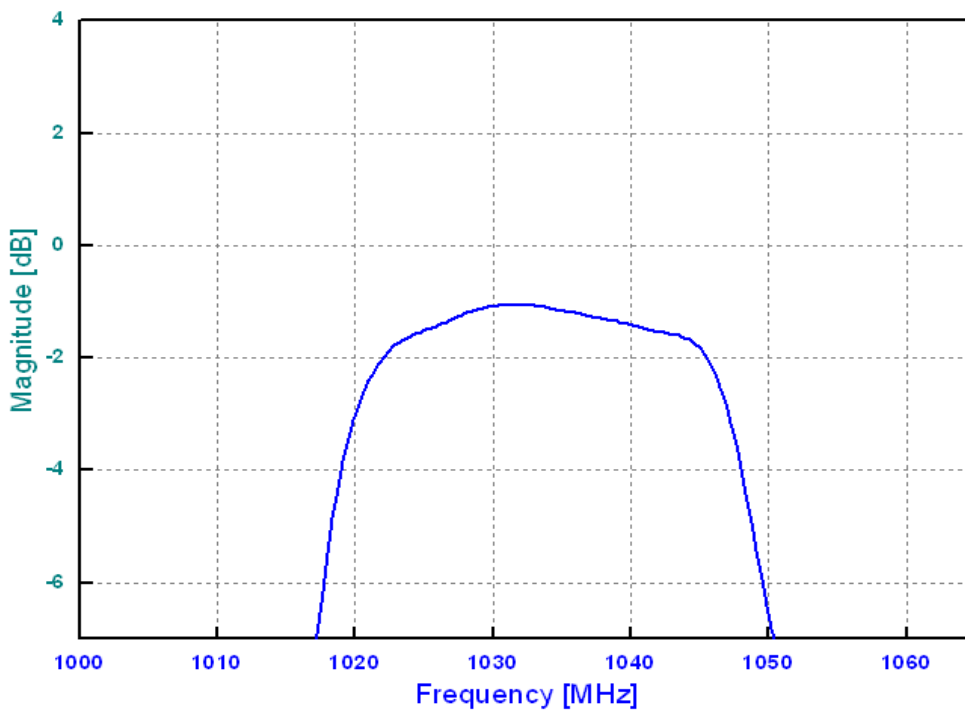
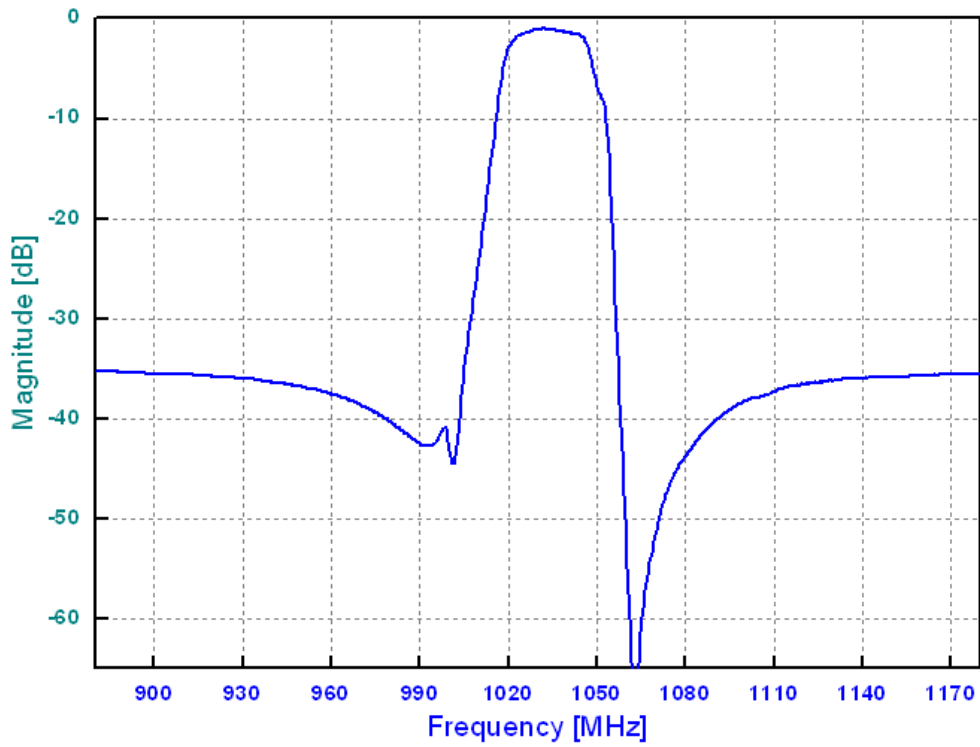
**Testing Environment**



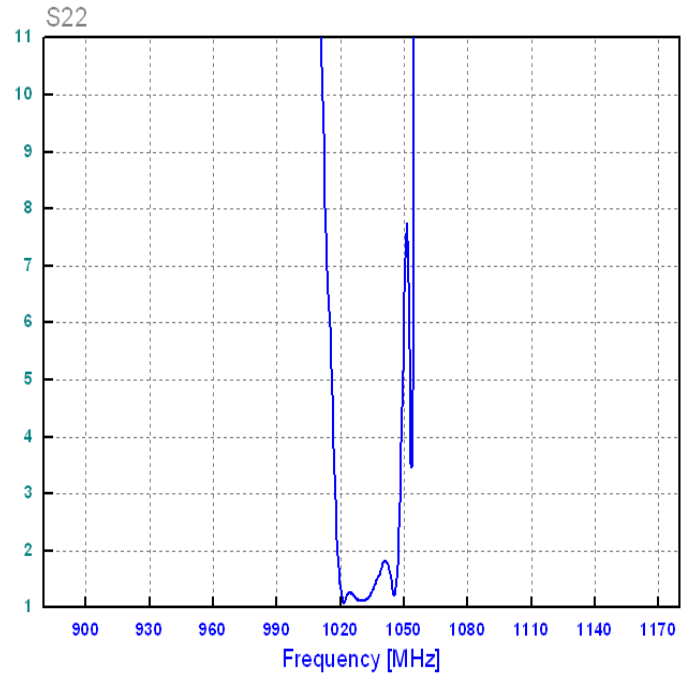
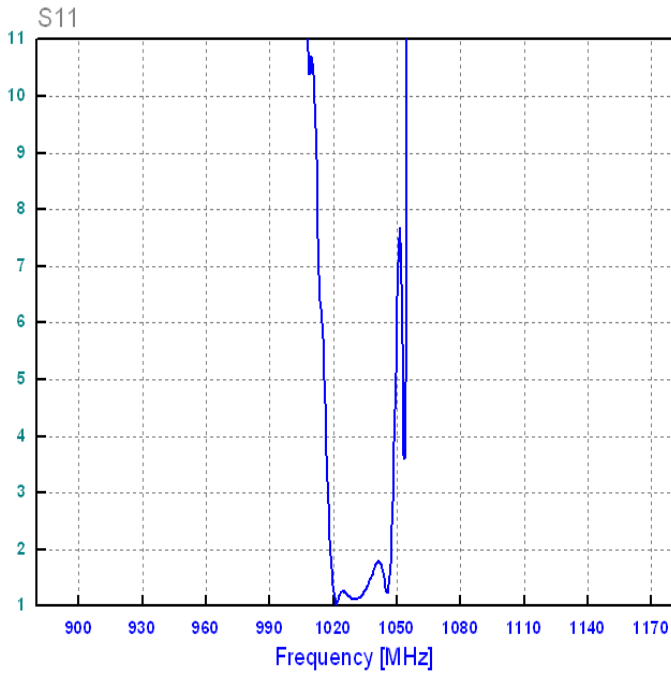
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

