



*Total Solution Provider in Saw Device*

---

# SF-062201-S20

Wireless, RF SAW Filter  
Revision 0: May 2013



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

**SAWNICS Inc.**

---

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

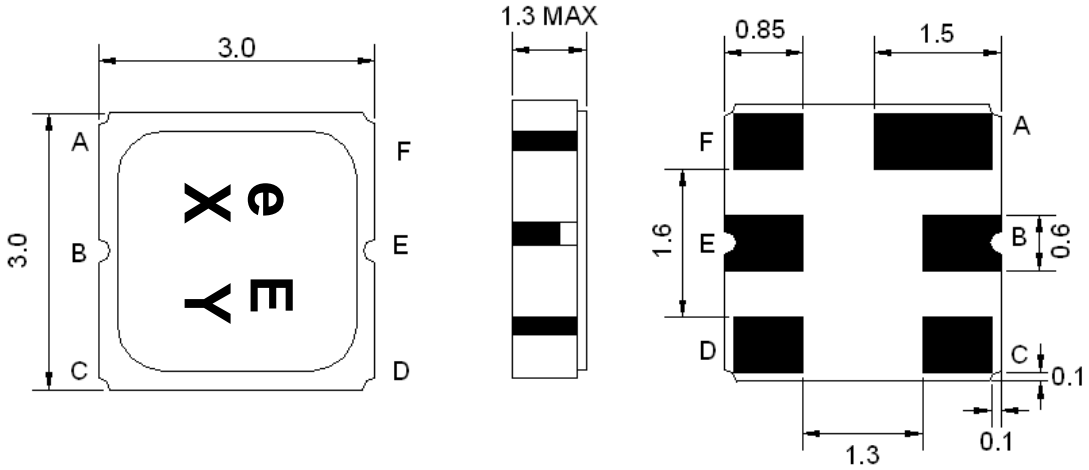
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	S20			
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	-	622.0	-
Insertion Loss within 620.0 ~ 624.0 MHz	dB	-	1.7	2.5
Amplitude Ripple within 620.0 ~ 624.0 MHz	dB <sub>p-p</sub>	-	0.3	1.0
Group Delay Ripple within 620.0 ~ 624.0 MHz	ns <sub>p-p</sub>	-	18	40
<b>Attenuation:</b>				
D.C ~ 500.0 MHz	dB	50	65	-
500.0 ~ 600.0 MHz	dB	40	45	-
635.0 ~ 650.0 MHz	dB	40	45	-
650.0 ~ 1000.0 MHz	dB	45	53	-
1000.0 ~ 2000.0 MHz	dB	35	41	-
2700.0 ~ 3000.0 MHz	dB	25	30	-
VSWR within 620.0 ~ 624.0 MHz	-	-	1.4	2.0

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

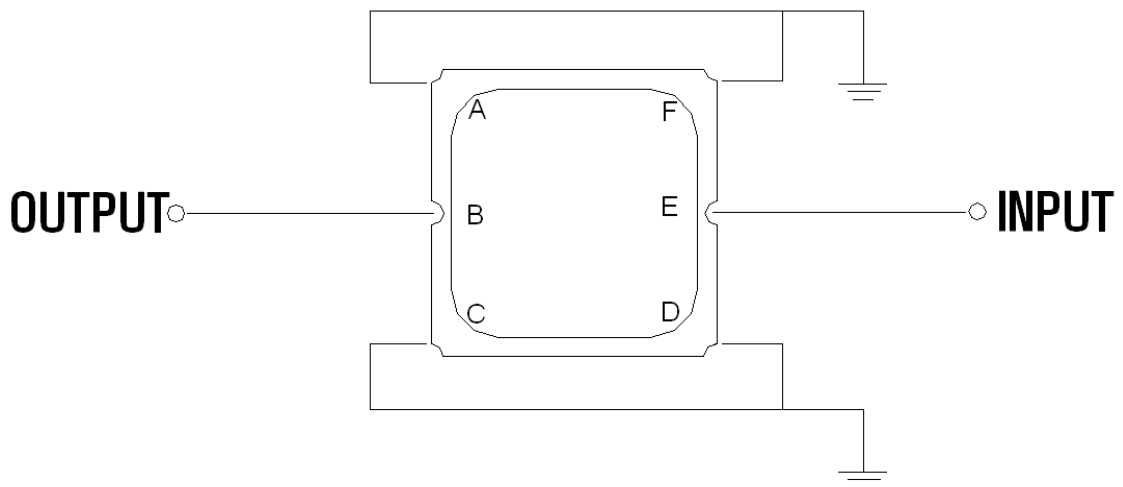
**Package Dimensions**



Marking Descriptions	
e	Wireless Application
E	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

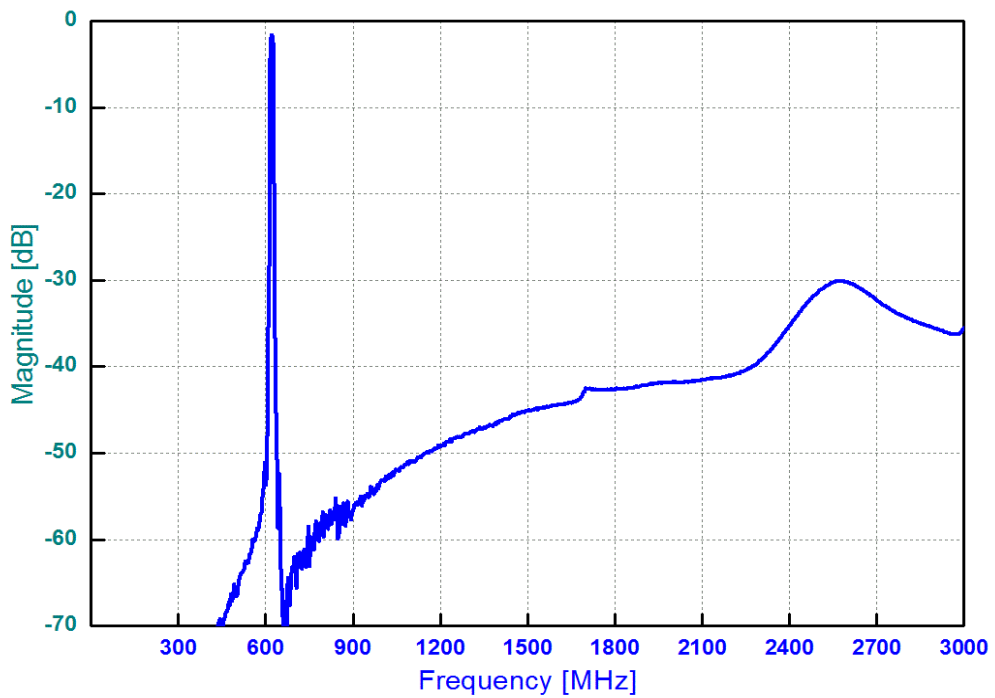
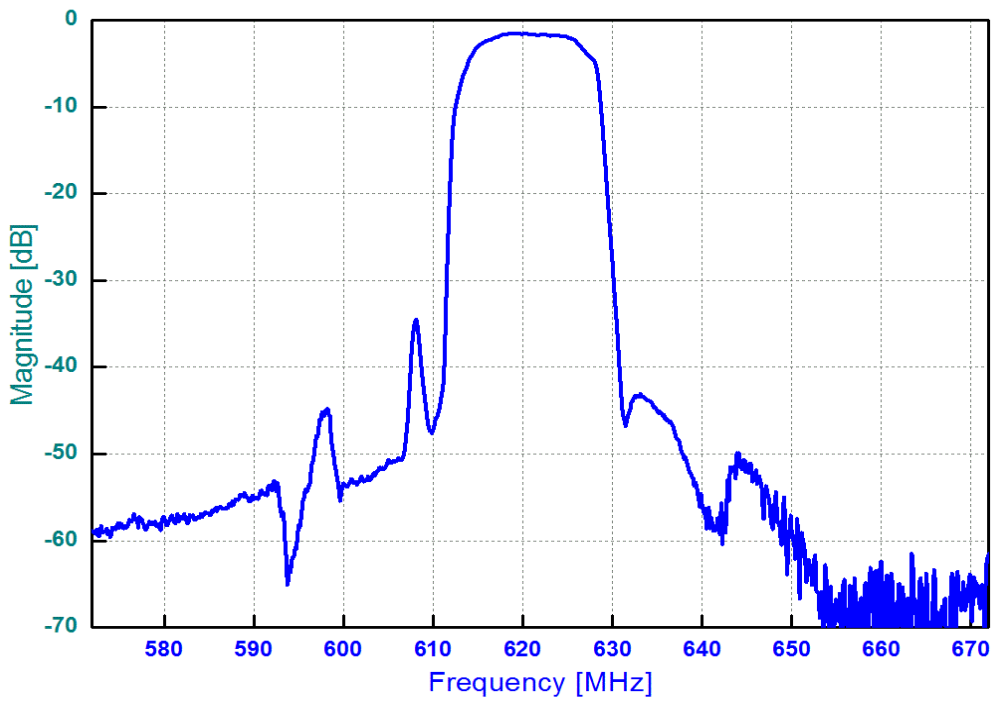
**Testing Environment**



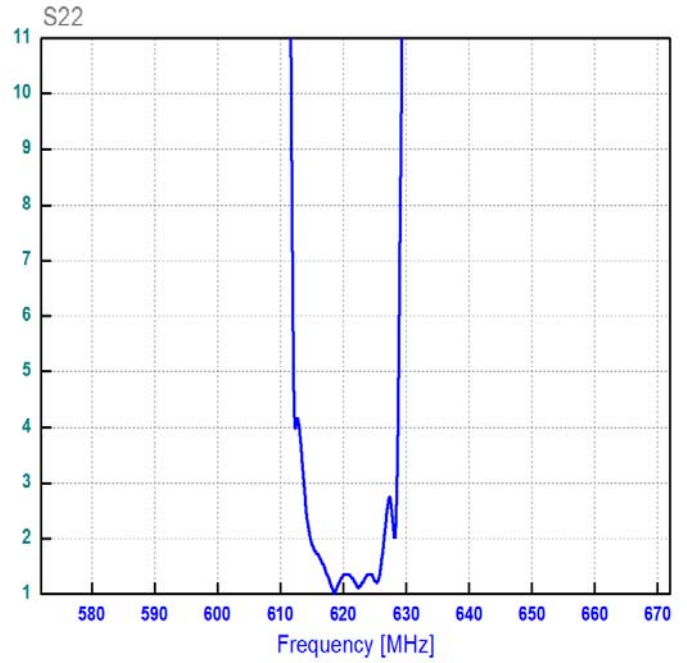
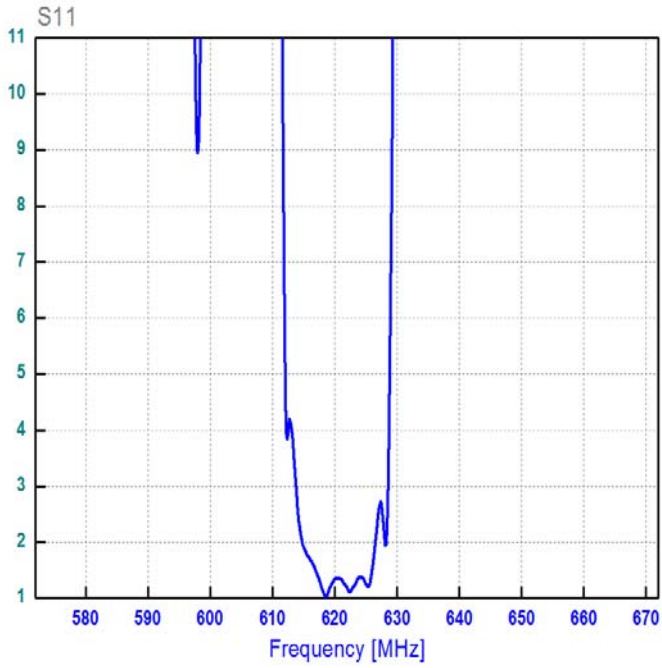
Source & Load Impedance: 50 Ω

## □ Frequency Characteristics

Frequency Response



### VSWR



### Smith Chart

