



*Total Solution Provider in Saw Device*

---

# SA1528AM1

Wireless, Balanced RF SAW Filter

Revision 0: October, 2009



- 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

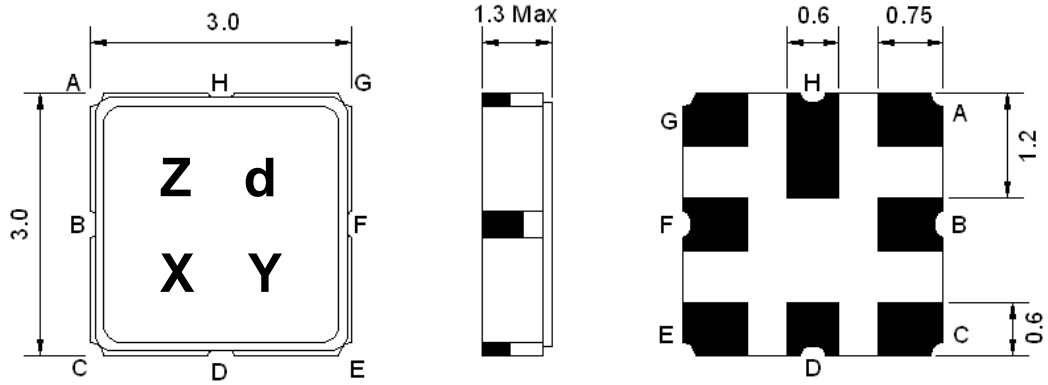
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (balanced ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M1			
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	-	1528.5	-
Insertion Loss within 1521.0 ~ 1536.0 MHz	dB	-	3.3	3.8
Amplitude Ripple within 1521.0 ~ 1536.0 MHz	dB <sub>p-p</sub>	-	0.4	1.0
<b>Attenuation:</b>				
D.C. ~ 1450.0 MHz	dB	40	50	-
1476.0 ~ 1491.0 MHz	dB	15	20	-
1600.0 ~ 1700.0 MHz	dB	30	40	-
1700.0 ~ 3000.0 MHz	dB	20	28	-
VSWR within 1521.0 ~ 1536.0 MHz	-	-	2.1	2.3

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

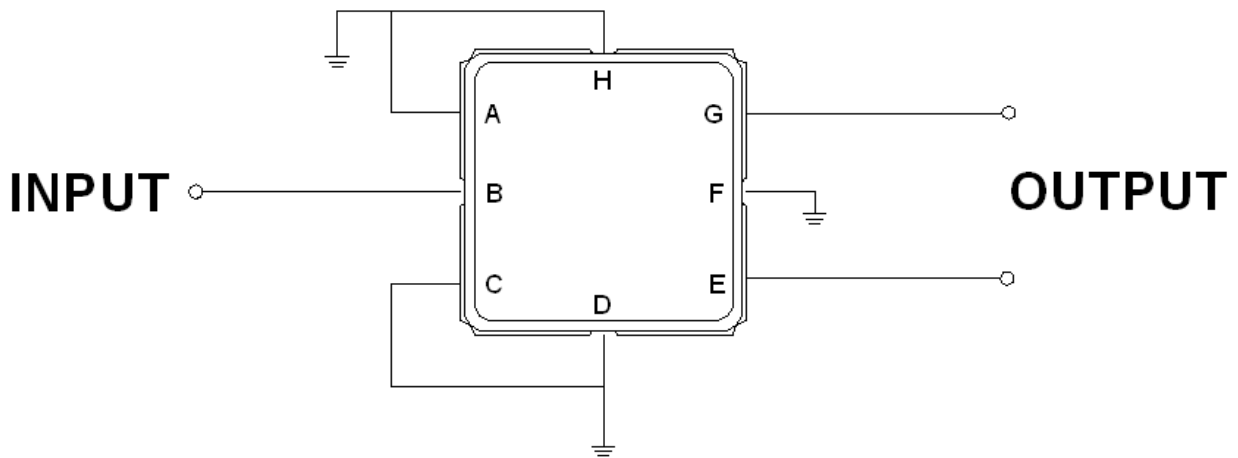
**Package Dimensions**



Marking Descriptions	
Z	Wireless Application
d	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

**Testing Environment**

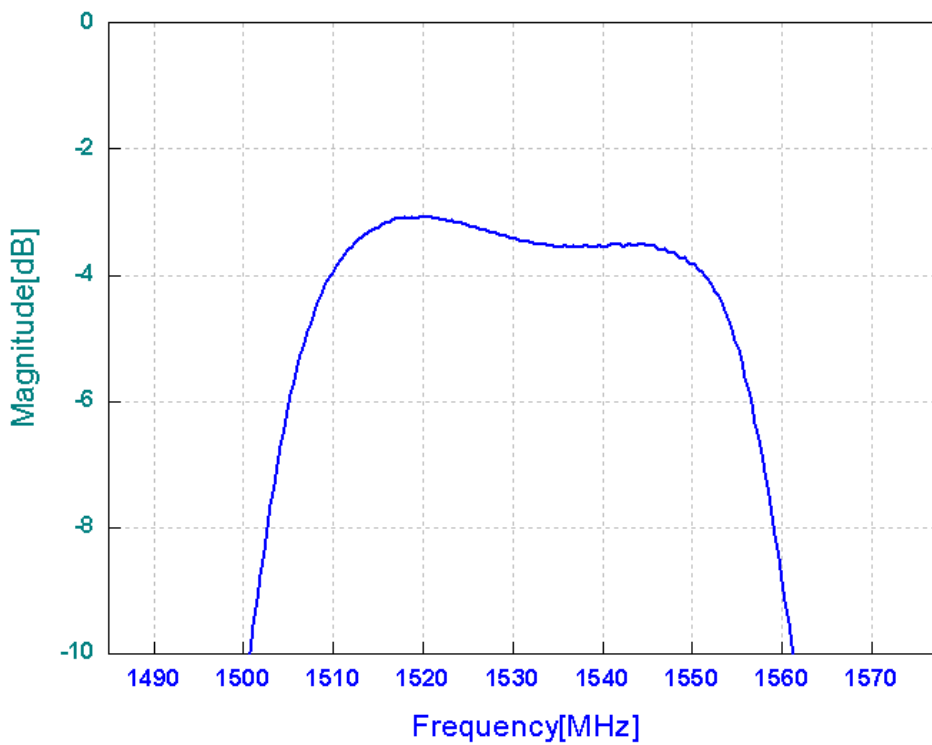
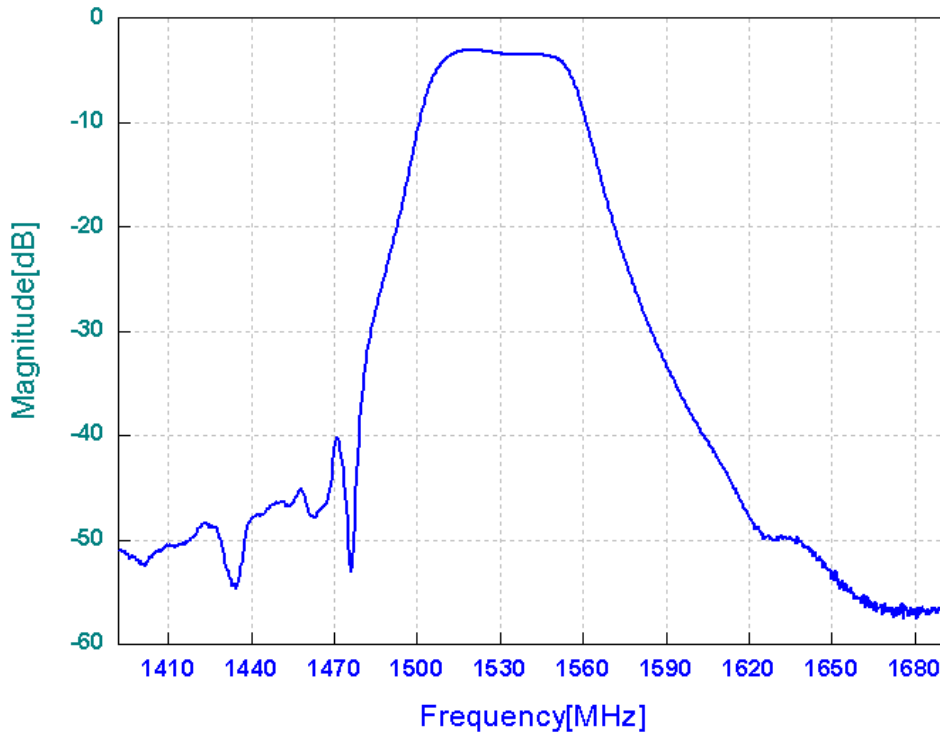


Source Impedance : 50 Ω

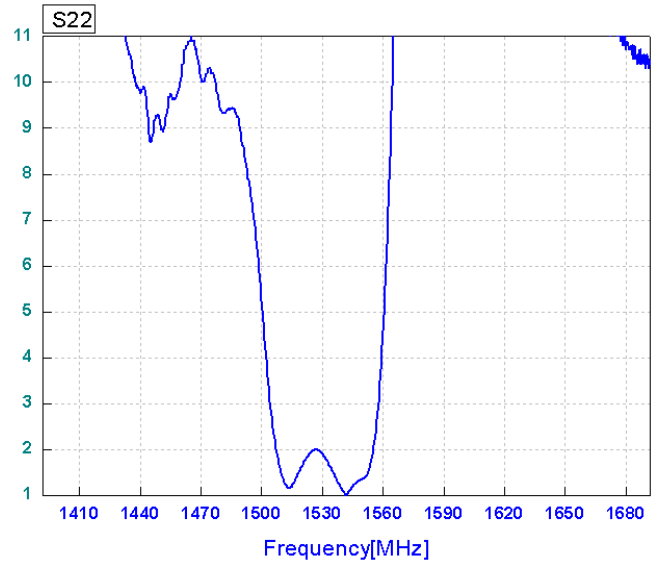
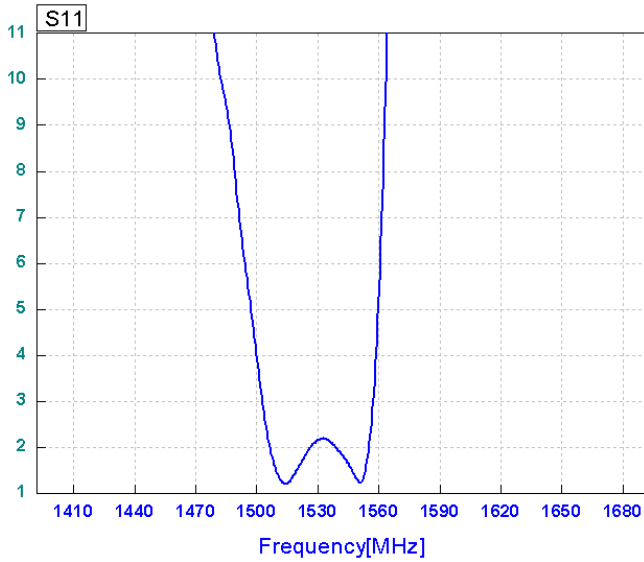
Load Impedance : 50 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

