



*Total Solution Provider in Saw Device*

---

# SA415CP

Wireless, RF SAW Filter  
Revision 0: August 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

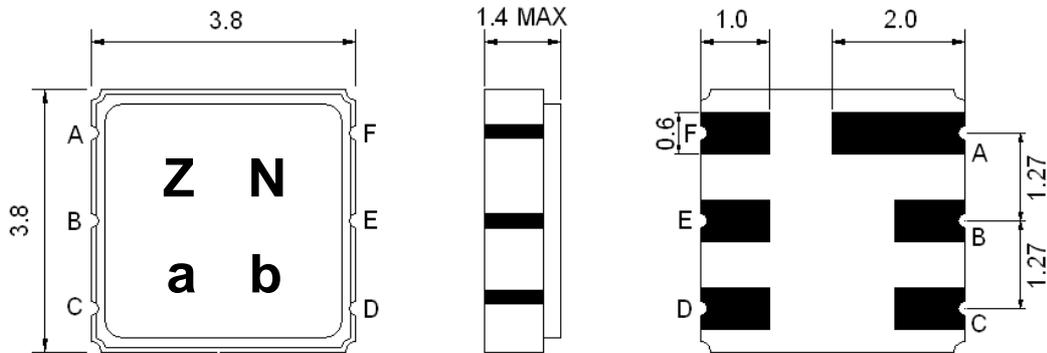
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Average Input Power	dBm	-	-	28
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	P			
Length x Width	mm <sup>2</sup>	-	3.8 x 3.8	-
Height	mm	-	-	1.4

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	415.0	-
Insertion Loss within 412.5 ~ 417.5 MHz	dB	-	2.1	3.0
Amplitude Ripple within 412.5 ~ 417.5 MHz	dB	-	0.8	1.5
<b>Attenuation:</b>				
0.3~402.5 MHz	dB	40	50	-
402.5~407.5 MHz	dB	35	43	-
427.5~1000.0 MHz	dB	23	30	-
1000.0~2000.0 MHz	dB	25	33	-
VSWR within 412.5 ~ 417.5 MHz	-	-	1.5	2.0

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

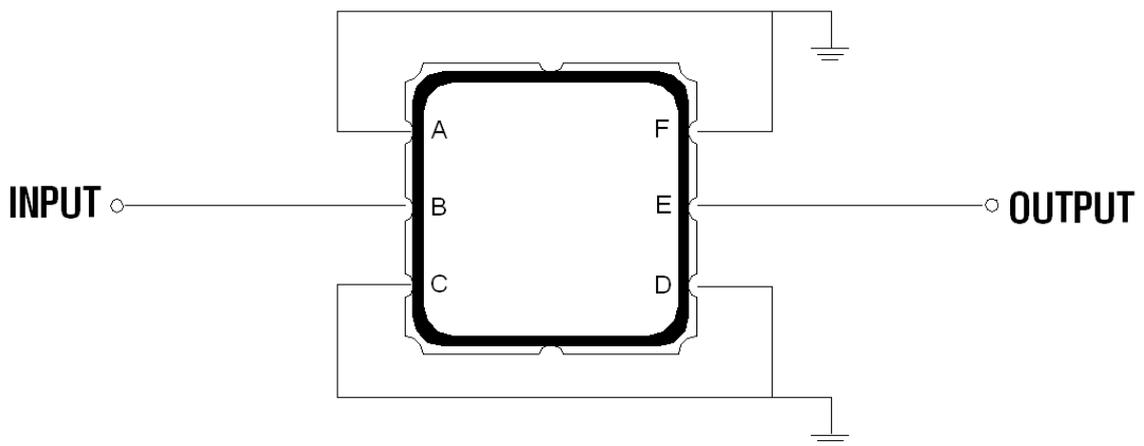
**Package Dimensions**



Marking Descriptions	
Z	Wireless Application
N	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

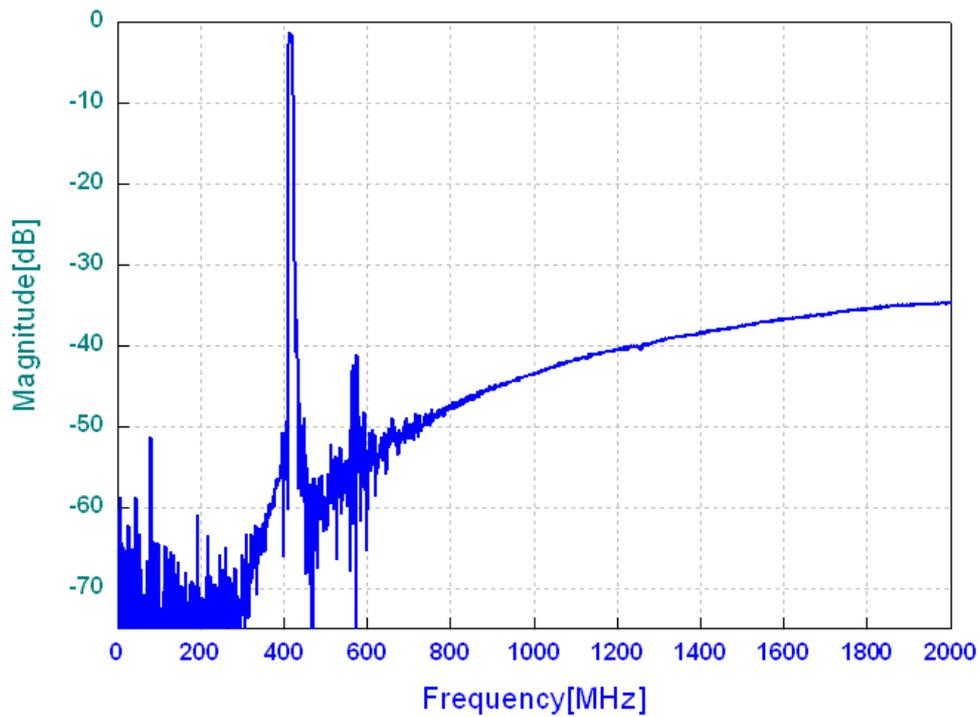
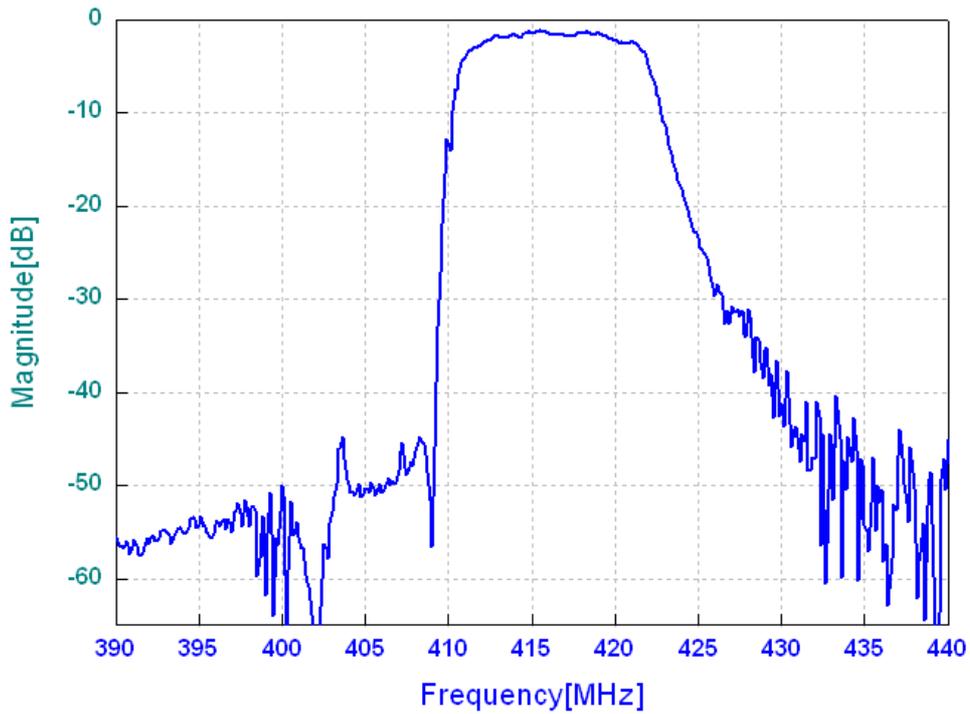
**Testing Environment**



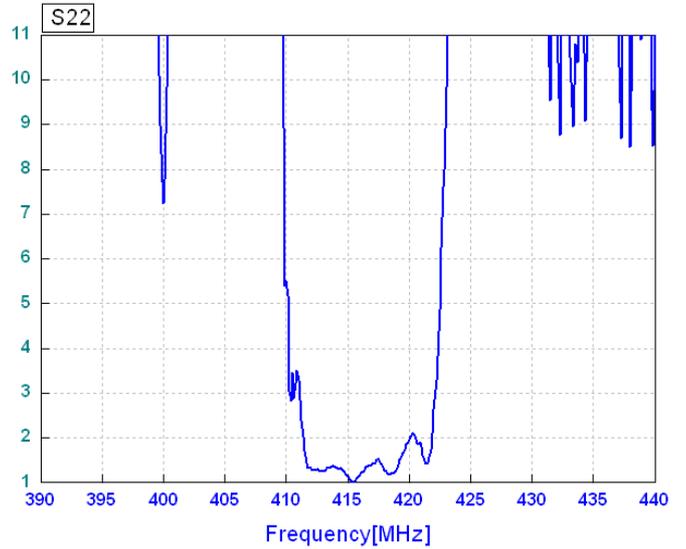
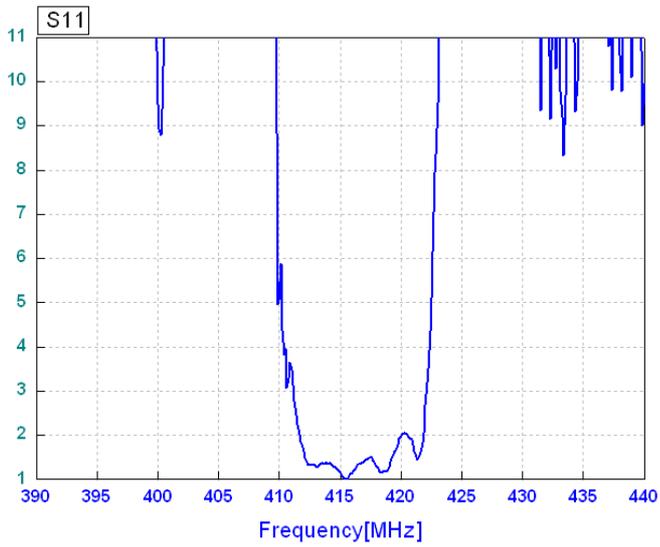
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

