



*Total Solution Provider in Saw Device*

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# SA382BP

Wireless, RF SAW Filter  
Revision 0: January 2009



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

### Maximum Ratings

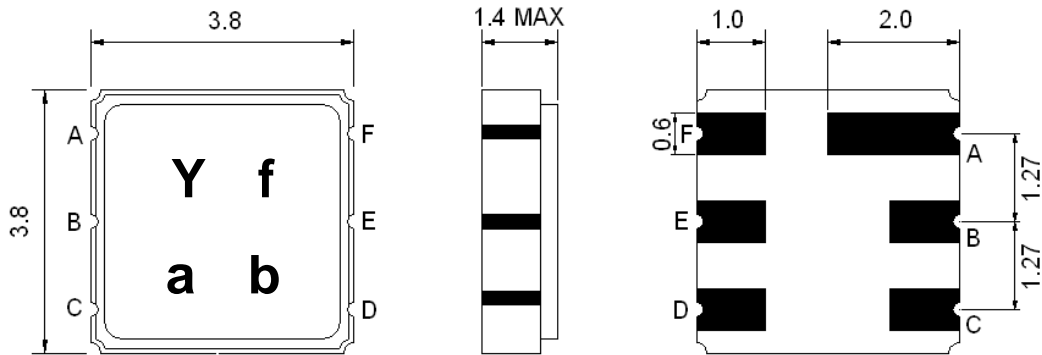
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	-
Average Input Power	dBm	-	28	-
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package 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	-	382.5	-
Insertion Loss within 380.0 ~ 385.0 MHz	dB	-	2.0	3.5
Amplitude Ripple within 380.0 ~ 385.0 MHz	dB <sub>p-p</sub>	-	0.6	1.0
<b>Attenuation:</b>				
0.3MHz ~ 310.0MHz	dB	45	55	-
310.0MHz ~ 315.0MHz	dB	40	55	-
315.0MHz ~ 370.0MHz	dB	40	50	-
390.0MHz ~ 395.0MHz	dB	15	20	-
395.0MHz ~ 450.0MHz	dB	15	20	-
450.0MHz ~ 455.0MHz	dB	40	50	-
455.0MHz ~ 2000.0MHz	dB	28	33	-
VSWR within 380.0 ~ 385.0 MHz	-	-	1.4	2.0

**Notes :** (1) No Matching Network (Ref. Testing Environment Circuit as shown below).

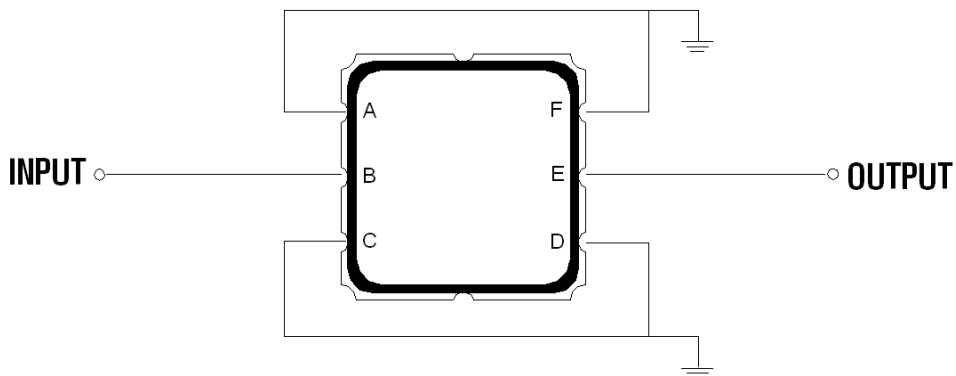
**Package Dimensions**



Marking Descriptions	
Y	Wireless Application
f	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

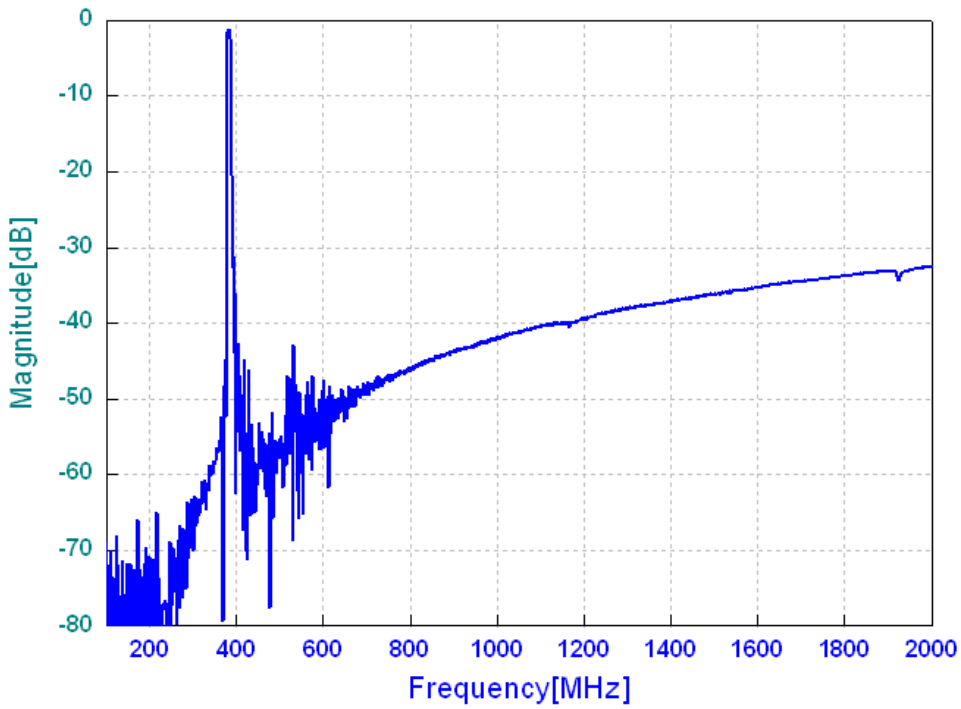
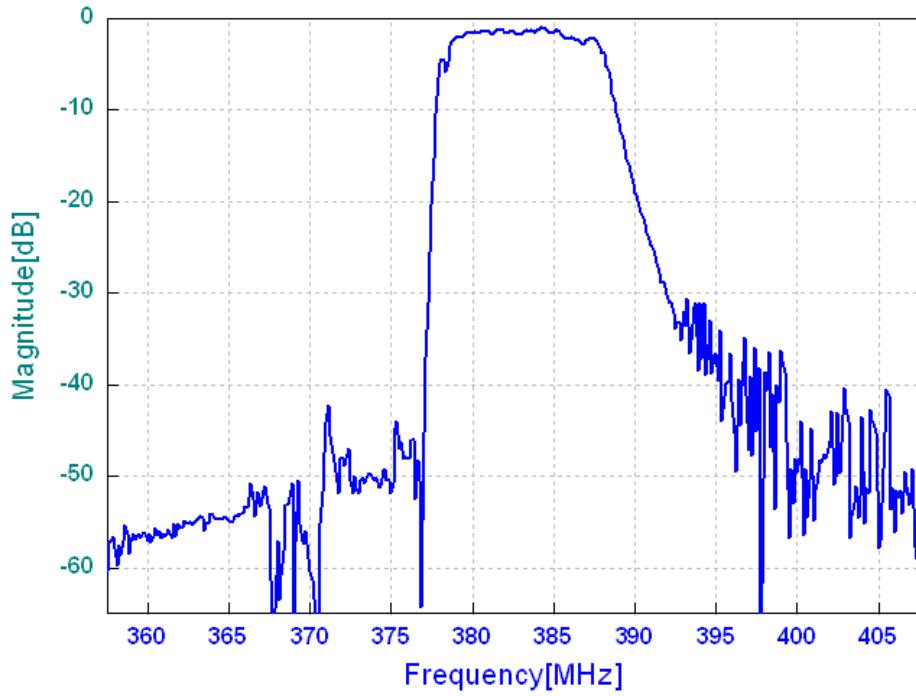
**Testing Environment**



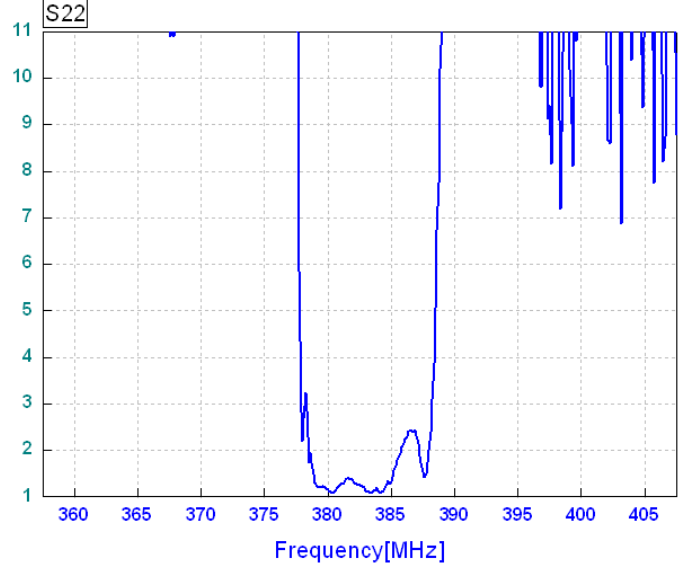
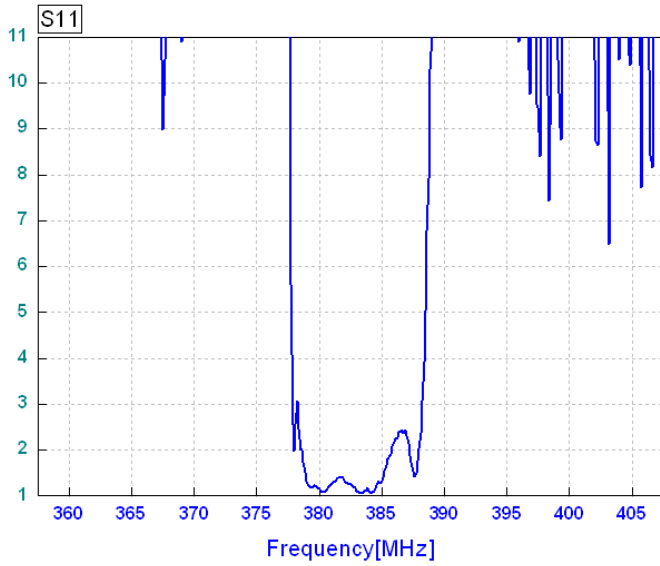
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

