



Total Solution Provider in Saw Device

SA390BK

Wireless, RF SAW Filter
Revision 0: April 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

□ Electrical Characteristics

Maximum Ratings

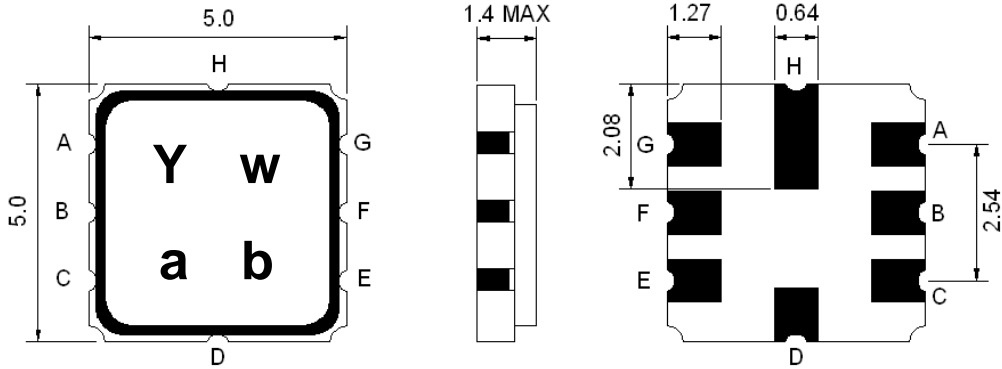
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	K			
Length x Width	mm ²	-	5.0 x 5.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	390.0	-
Insertion Loss within 380.0~400.0 MHz	dB	-	2.3	3.5
Amplitude Ripple within 380.0~400.0 MHz	dB _{p-p}	-	0.7	1.5
Stop Band Attenuation:				
10.0 ~ 349.0 MHz	dB	30	40	-
434.825 ~ 454.825 MHz	dB	23	30	-
489.650 ~ 509.650 MHz	dB	35	45	-
599.300 ~ 619.300 MHz	dB	35	45	-
619.300 ~ 1000.0 MHz	dB	40	50	-
Return Loss within 380.0~400.0 MHz	dB	8	11	-

Notes : (1) No Matching Network .

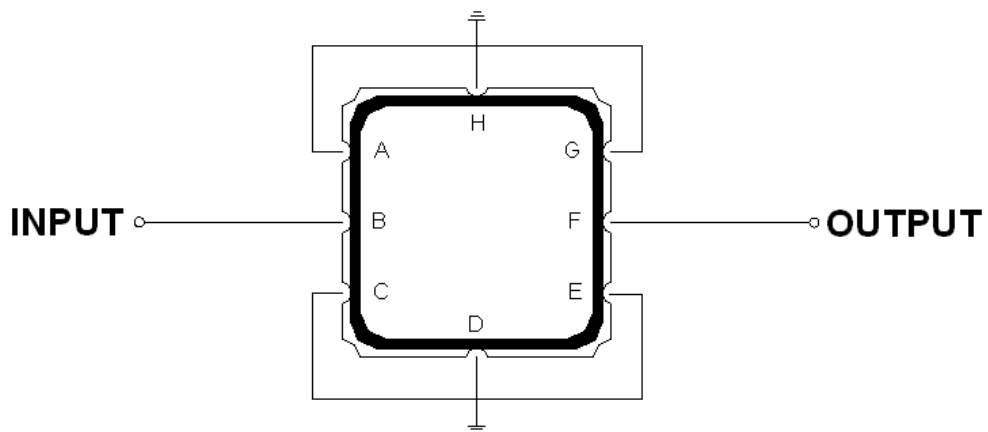
Package Dimensions



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

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

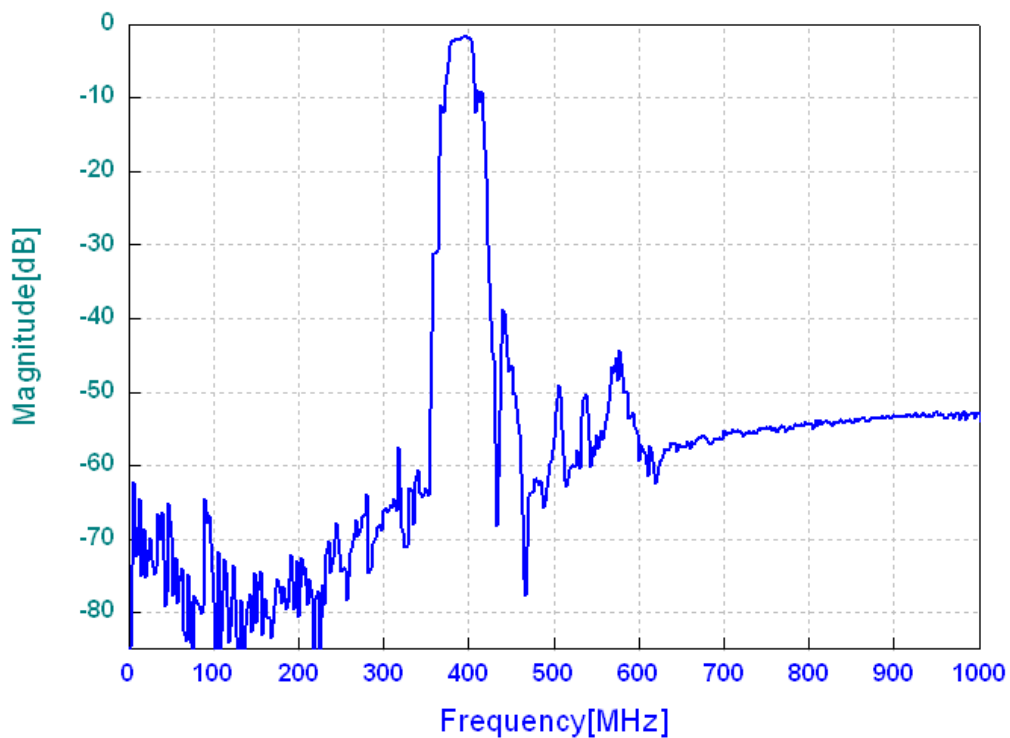
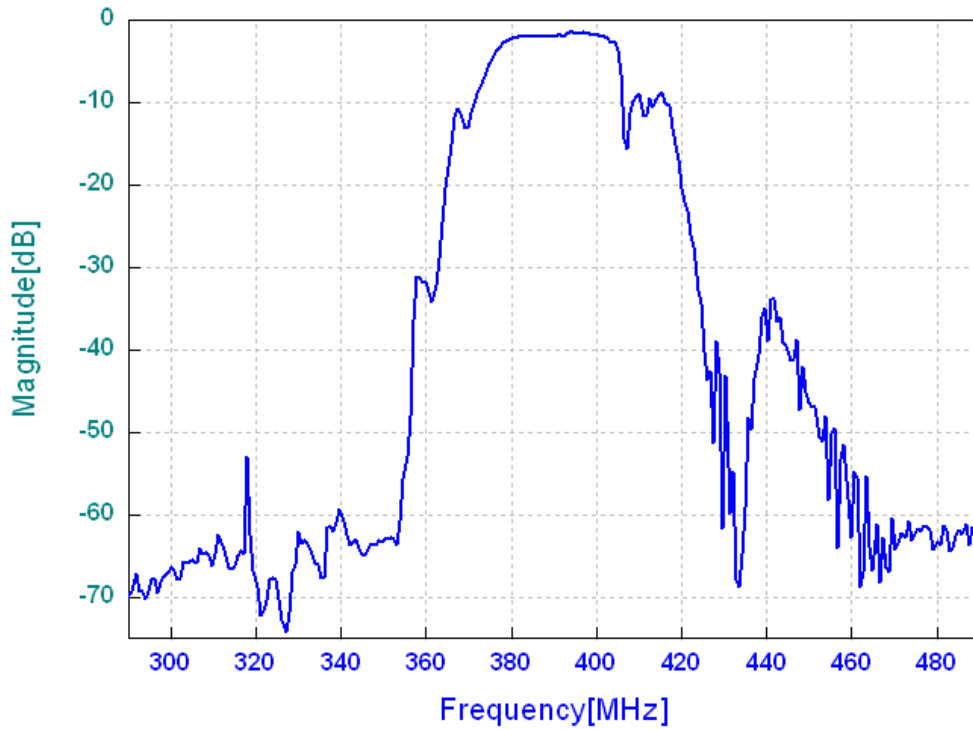
Testing Environment



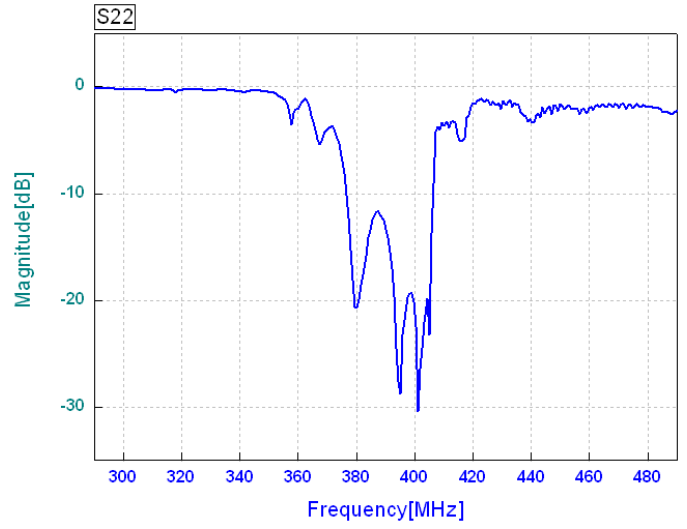
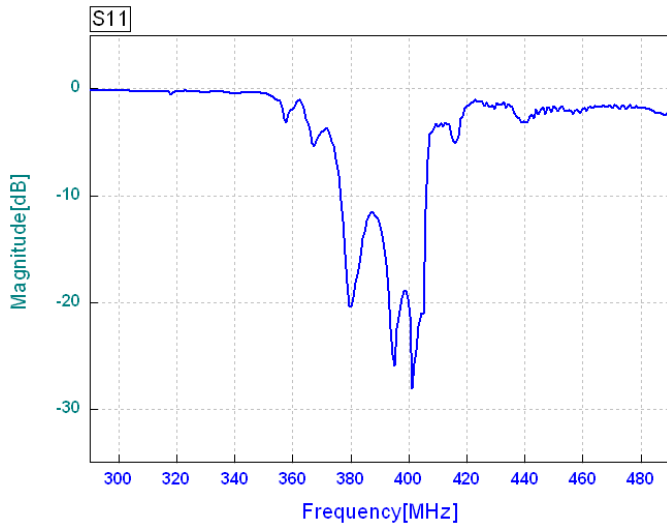
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

