



Total Solution Provider in Saw Device

SA442AP

Wireless, RF SAW Filter
Revision 0: September 2010



- 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

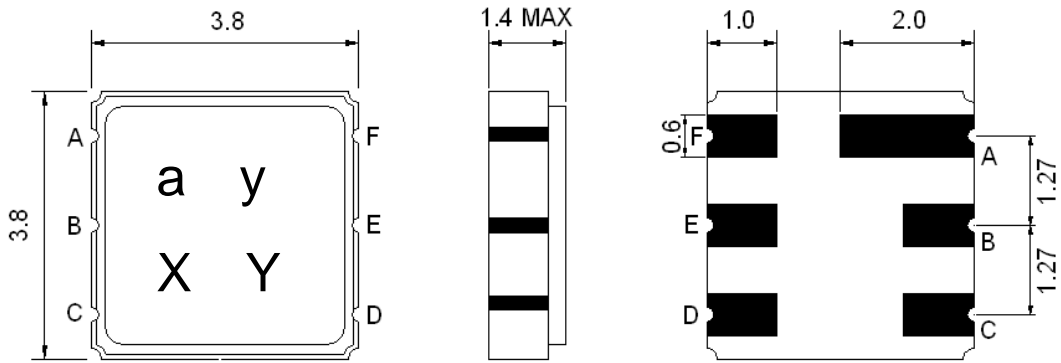
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	27
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	P			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	442.5	-
Insertion Loss within 440.0 ~445.0 MHz	dB	-	1.7	3.2
Amplitude within 440.0 ~445.0 MHz	dB _{p-p}	-	0.7	1.2
Stop Band Attenuation:				
0.3 ~ 430.0 MHz	dB	28	32	-
450.0 ~ 455.0 MHz	dB	30	40	-
455.0 ~ 500.0 MHz	dB	25	35	-
VSWR within 440.0 ~ 445.0 MHz	-	-	1.6	2.0

Notes : (1) No Matching Network .

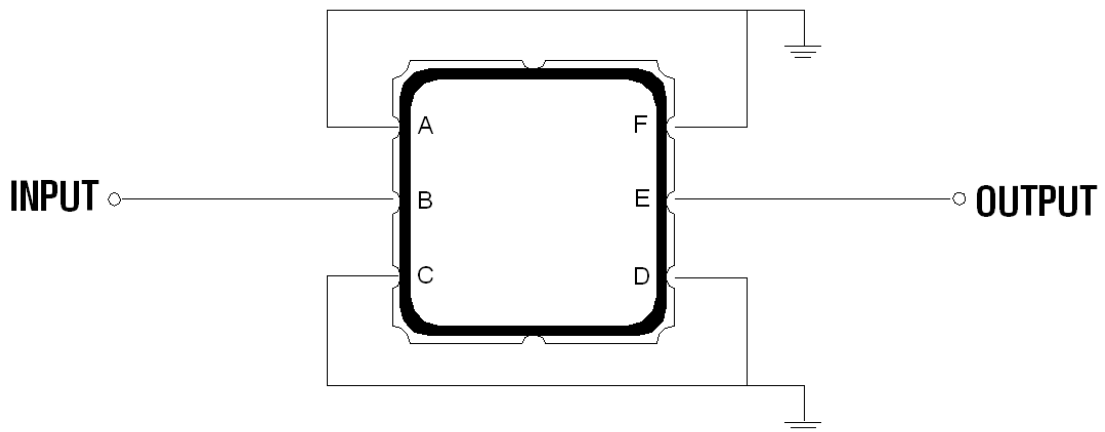
Package Dimensions



Marking Descriptions	
a	Wireless Application
y	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

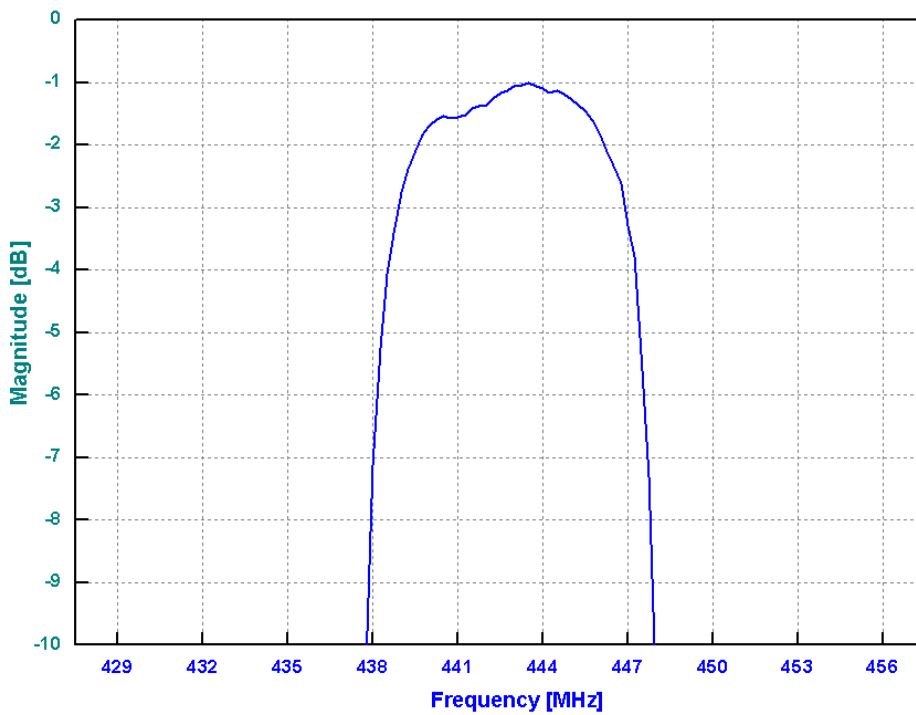
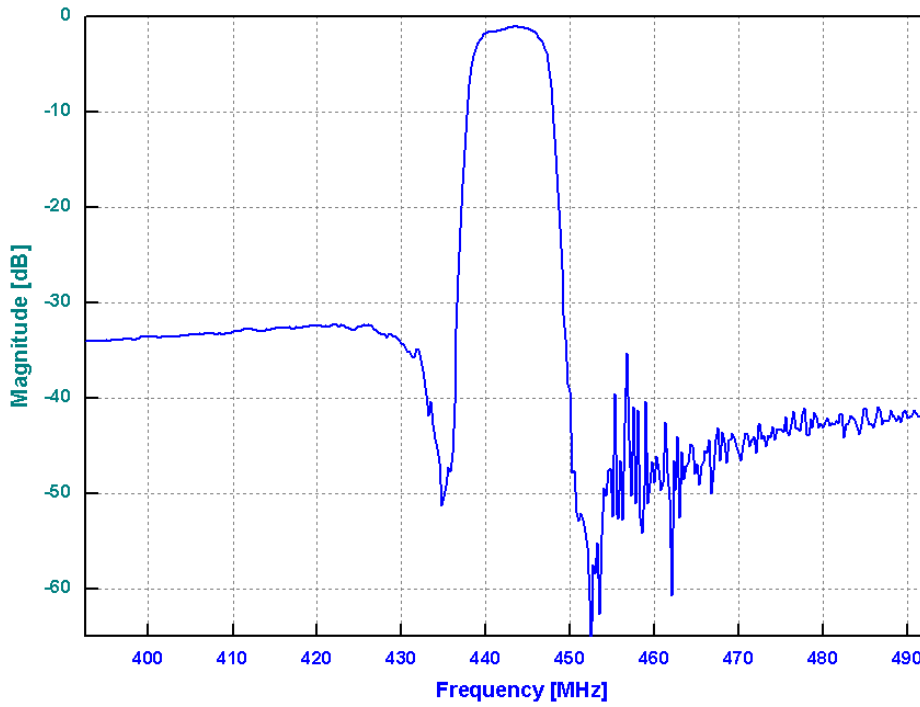
Testing Environment



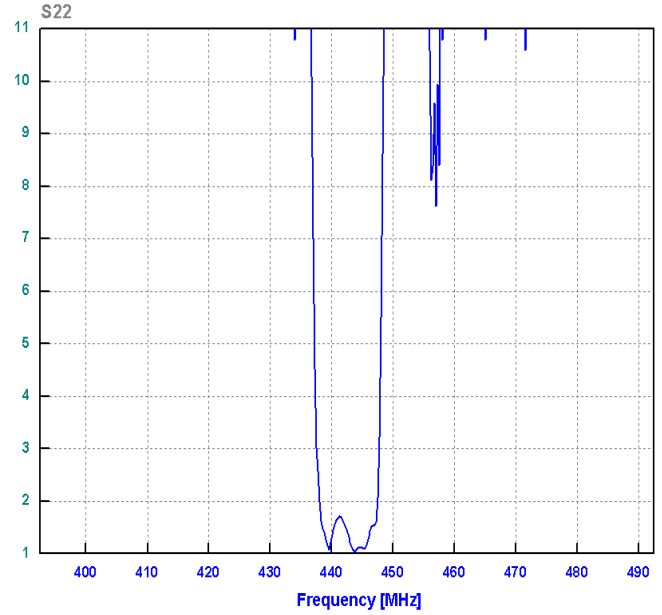
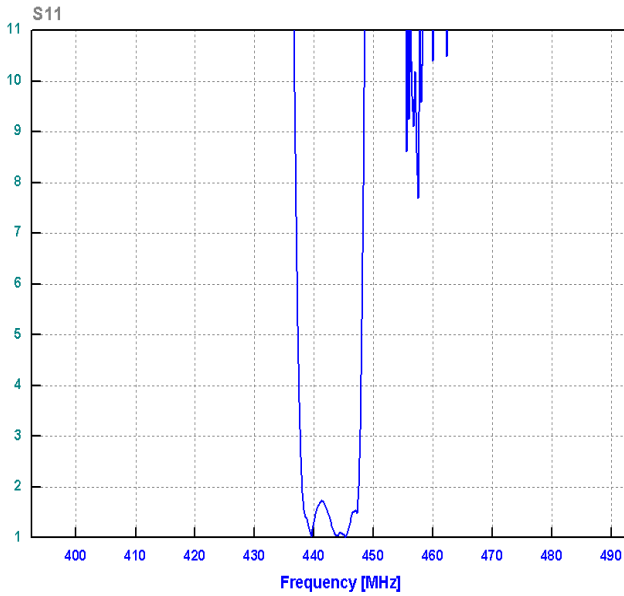
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

