



Total Solution Provider in Saw Device

SA1003AP

Wireless, RF SAW Filter
Revision 0: November 2004



- 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

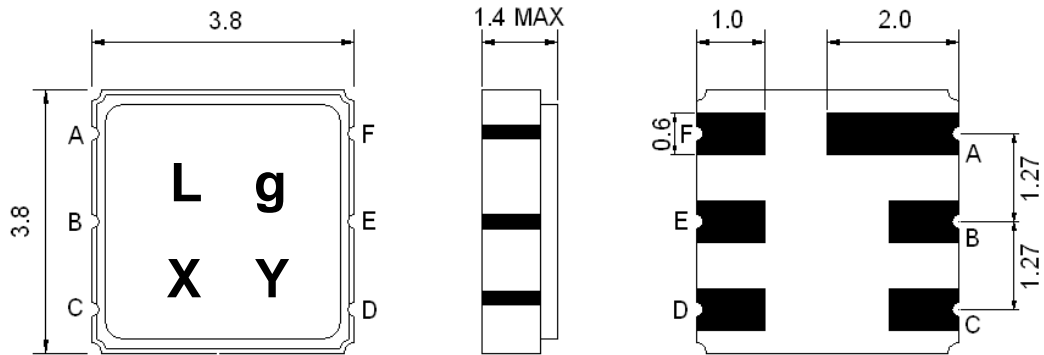
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	P			
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	-	1003.0	-
Insertion Loss within 988 ~ 1018 MHz	dB	-	3.5	4.5
Amplitude Ripple within 988 ~ 1018 MHz	dB _{p-p}	-	1.5	2.5
Attenuation:				
D.C. ~ 942 MHz	dB	50	60	-
942 ~ 964 MHz	dB	40	50	-
964 ~ 967 MHz	dB	40	50	-
1039 ~ 1040 MHz	dB	13	23	-
1040 ~ 1084 MHz	dB	15	25	-
1084 ~ 1559 MHz	dB	35	50	-
1559 ~ 3000 MHz	dB	20	28	-
VSWR within 988 ~ 1018 MHz	-	-	2.3	2.7

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

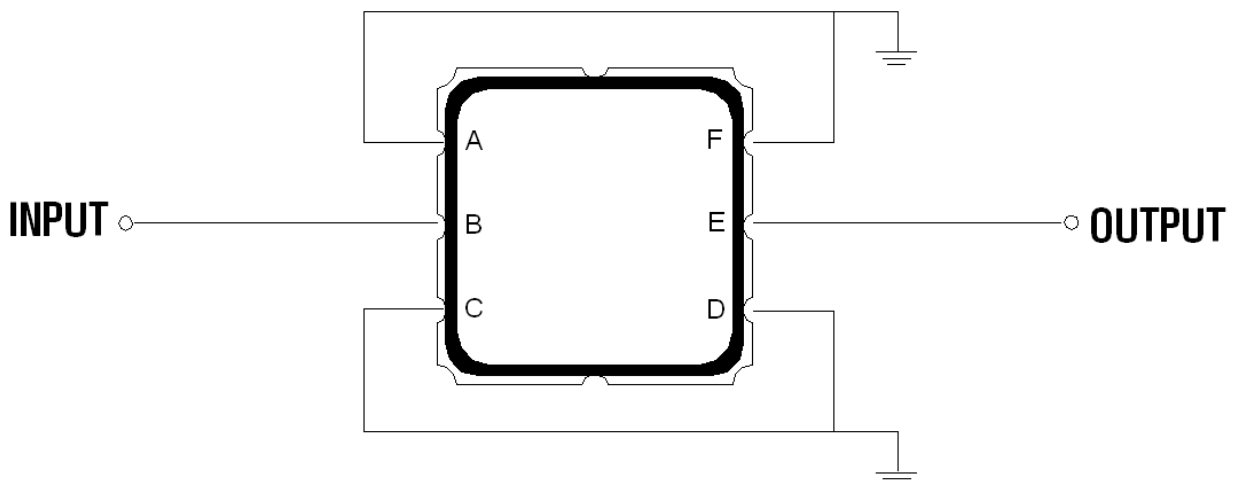
Package Dimensions



Marking Descriptions	
L	Wireless Application
g	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

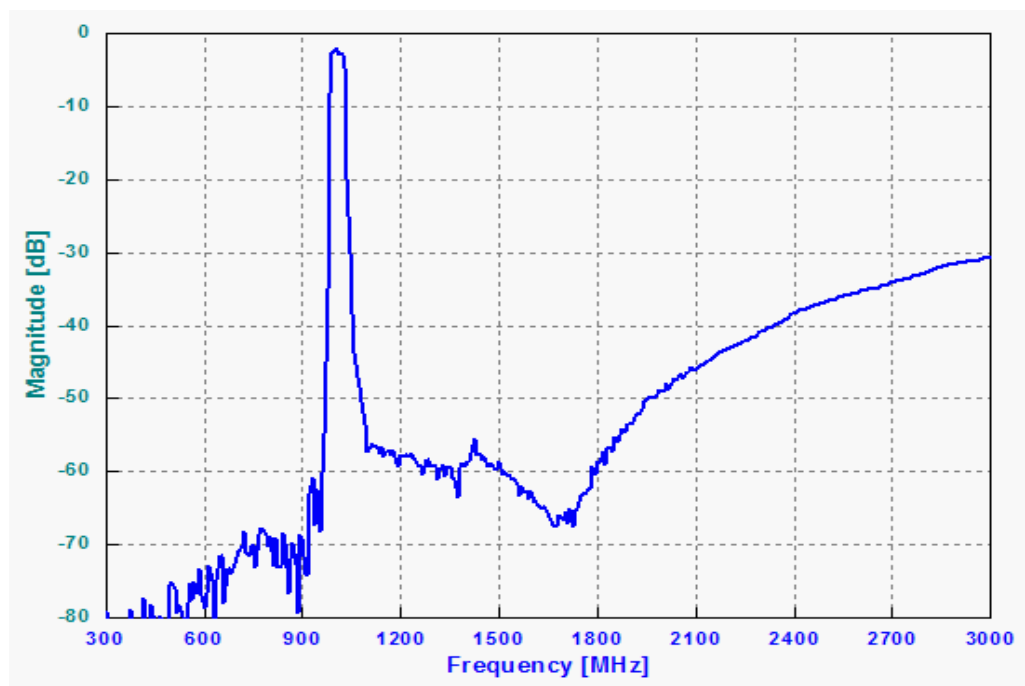
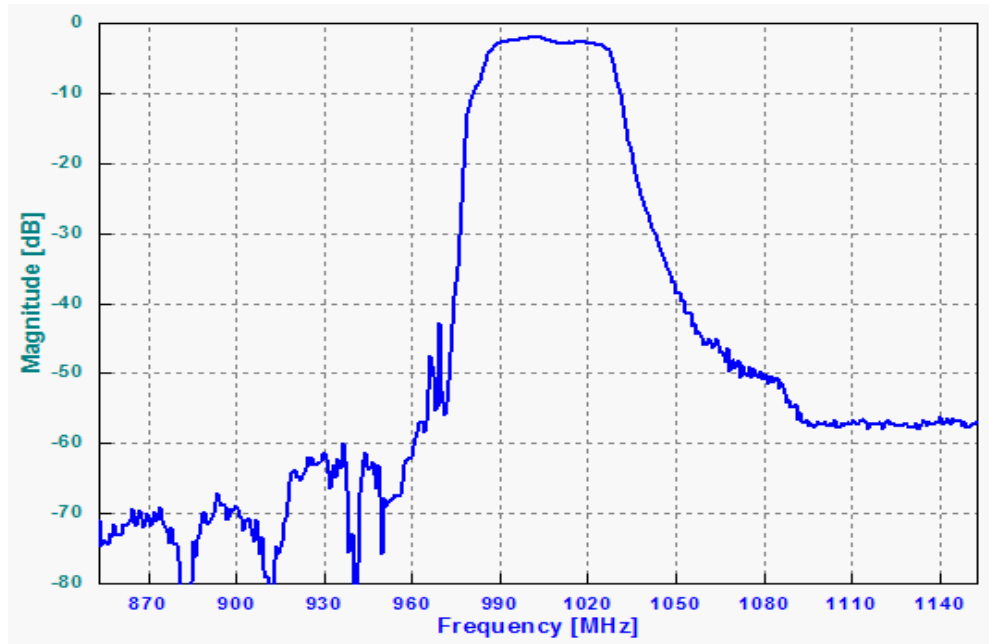
Testing Environment



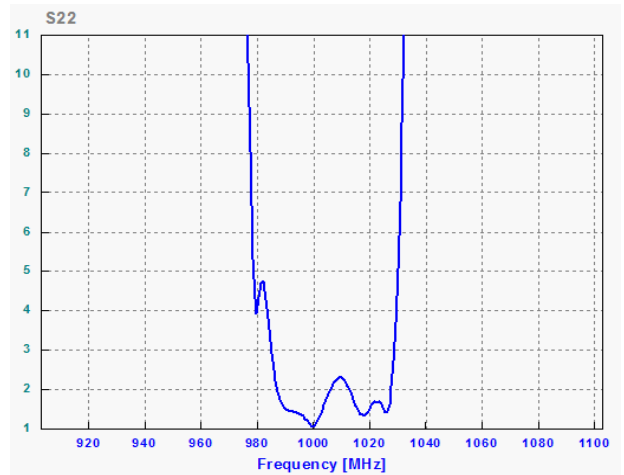
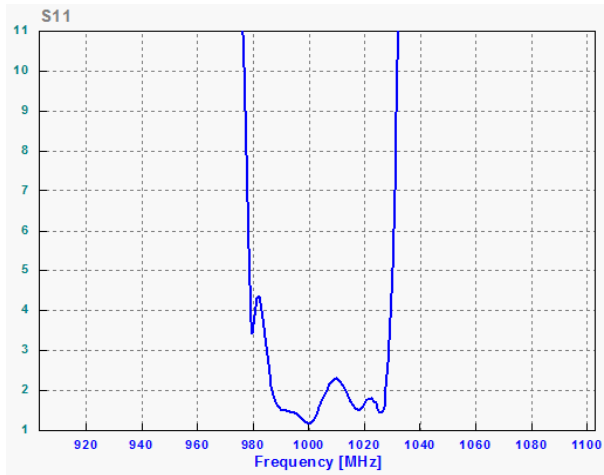
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

