



Total Solution Provider in Saw Device

SA1538BM

Wireless, RF SAW Filter
Revision 0:



- 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

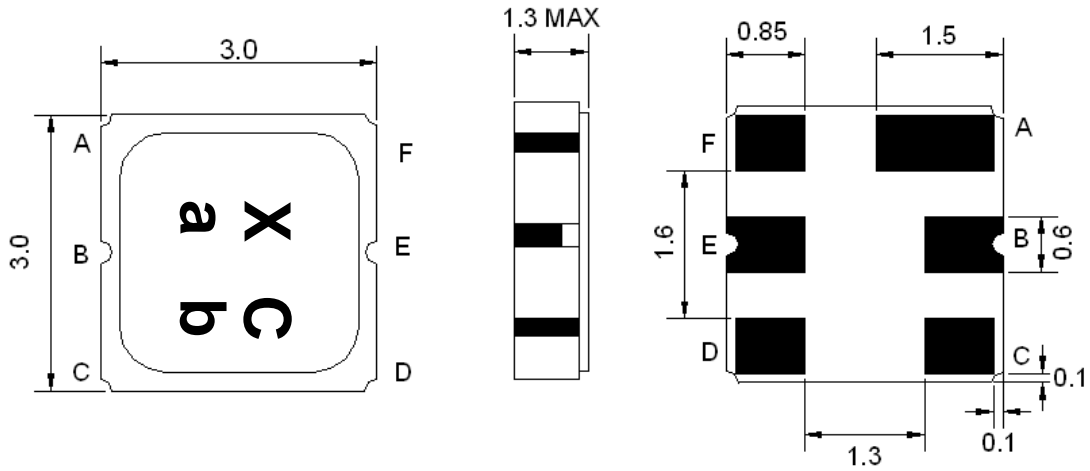
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1538.5	-
Insertion Loss within 1523.0 ~ 1553.0 MHz	dB	-	3.4	4.2
Amplitude Ripple within 1523.0 ~ 1553.0 MHz	dB _{p-p}	-	0.7	2.0
Attenuation:				
D.C. ~ 1425.0 MHz	dB	40	52	-
1425.0 ~ 1485.0 MHz	dB	20	27	-
1600.0 ~ 1630.0 MHz	dB	27	38	-
1630.0 ~ 3000.0 MHz	dB	15	23	-
VSWR within 1523.0 ~ 1553.0 MHz	-	-	1.7	2.3

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

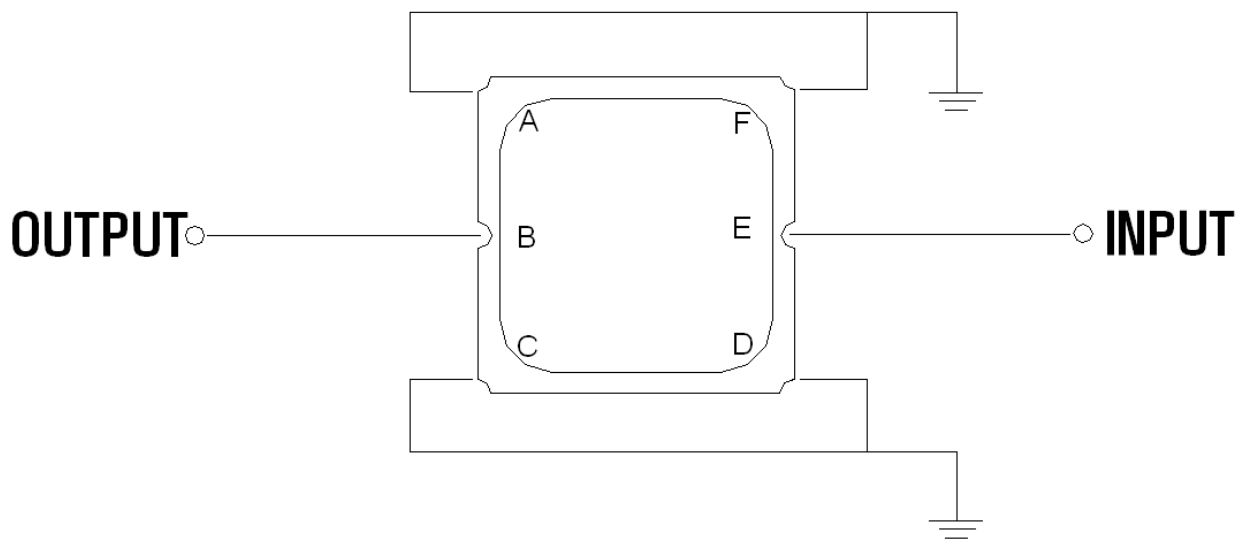
□ Package Dimensions



Marking Descriptions	
X	Wireless Application
C	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

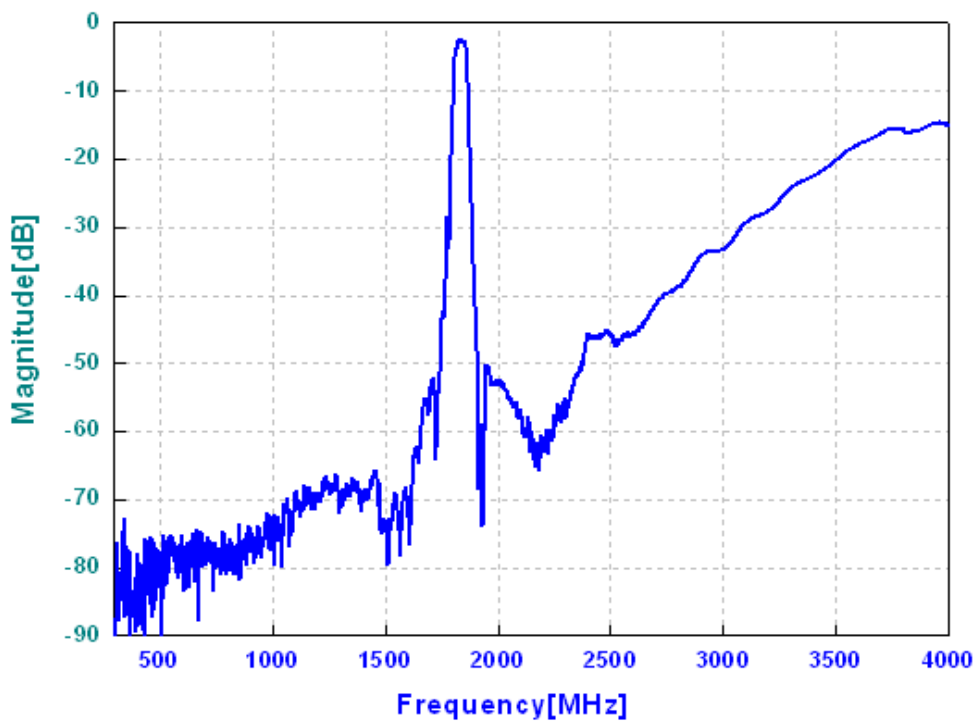
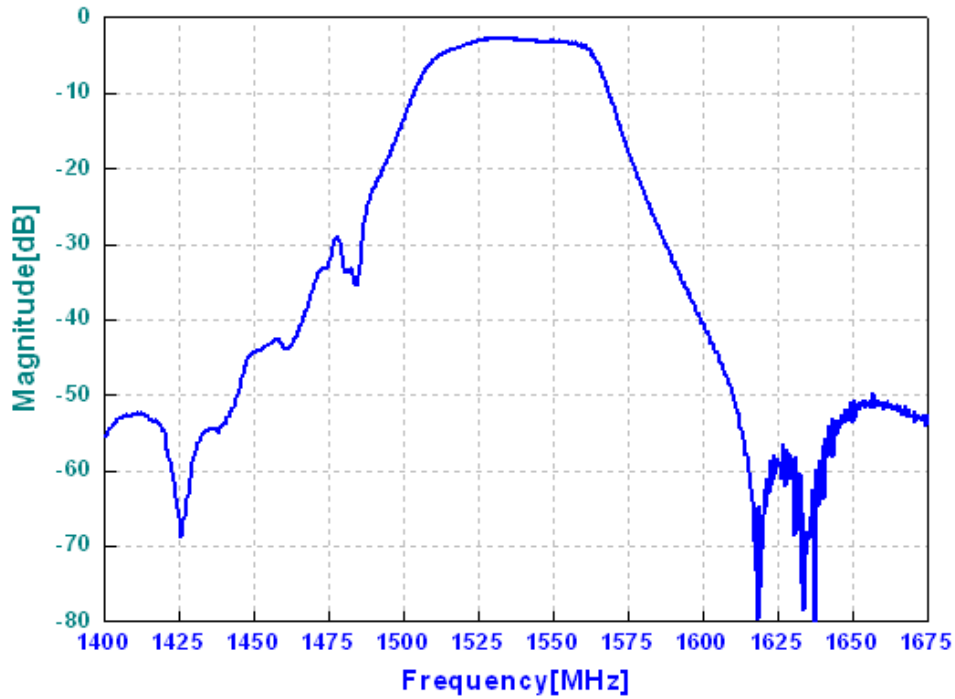
□ Testing Environment



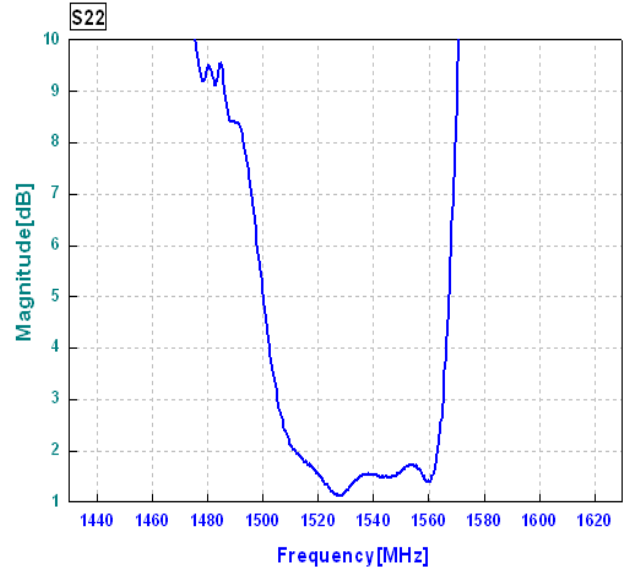
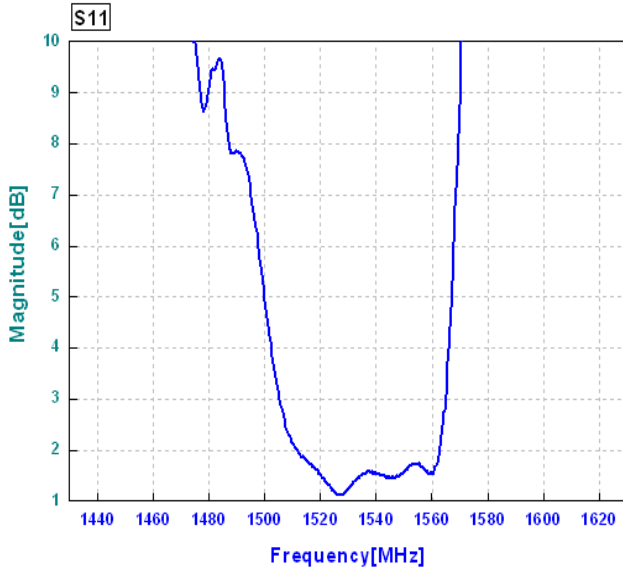
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response

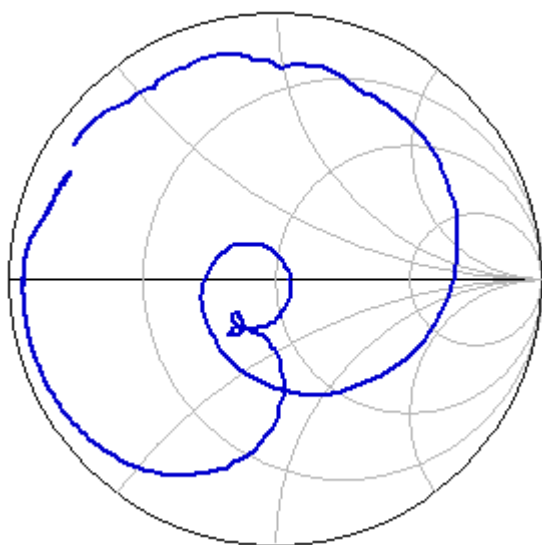


VSWR



Smith Chart

S11



S22

