



*Total Solution Provider in Saw Device*

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# SD910AP2

SAW DUPLEXER For 910 MHz / 955 MHz  
Revision 0: January ,2011



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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**SAWNICS Inc.**

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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](http://www.sawnics.com)



## □ Electrical Characteristics

### Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Maximum Input Power	W	1.0 W > 50,000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	50		
Output Impedance	Ω	50		
Package type & size		P2		
Length x Width	mm <sup>2</sup>	-	3.8 x 3.8	-
Height	mm	-	-	1.45

### Electrical Specification

Tx → Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	905.0 ~ 915.0	dB	-	1.2	2.5
Amplitude Ripple	905.0 ~ 915.0	dB <sub>p-p</sub>	-	0.2	1.0
VSWR	905.0 ~ 915.0	-	-	1.5	2.0
Absolute Attenuation	950.0 ~ 960.0	dB	40	50	-

Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	950.0 ~ 960.0	dB	-	1.3	2.5
Amplitude Ripple	950.0 ~ 960.0	dB <sub>p-p</sub>	-	0.3	1.0
VSWR	950.0 ~ 960.0	-	-	1.3	2.0
Absolute Attenuation	905.0 ~ 915.0	dB	45	55	-



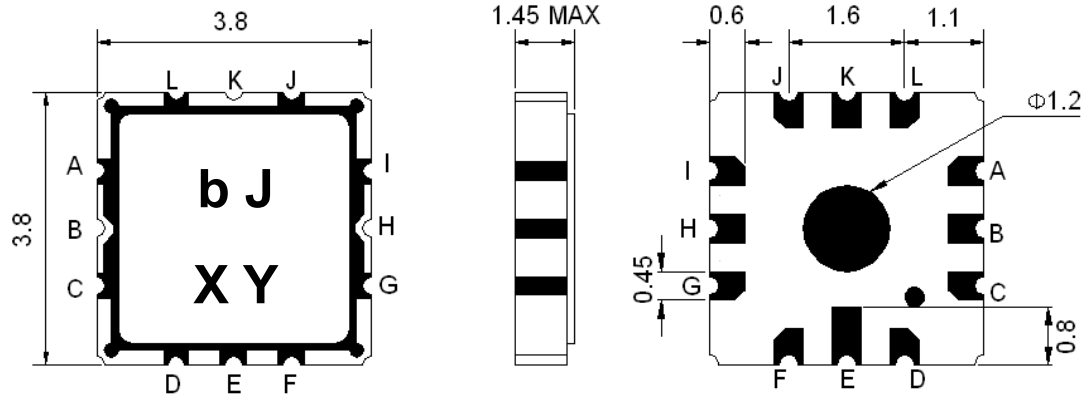
SD910AP2

SAW DUPLEXER FOR 910 MHz / 955MHz

Tx → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	905.0 ~ 915.0	dB	45	55	-
	950.0 ~ 960.0	dB	50	58	-

**Notes :** (1) With Matching Network .

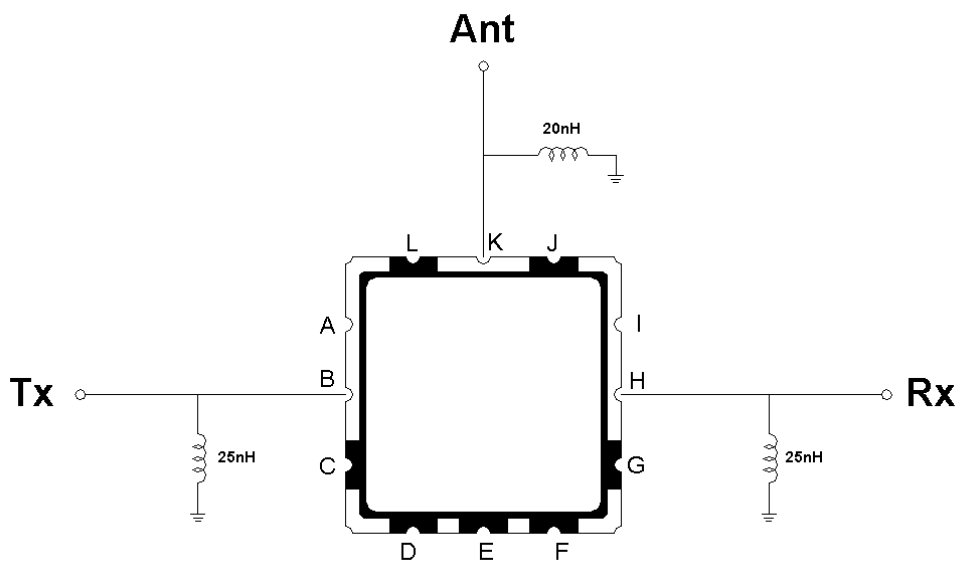
**Package Dimensions**



Marking Descriptions	
b	Wireless Application
J	Series Number
X	Date Code(Year)
Y	Date Code(Month)

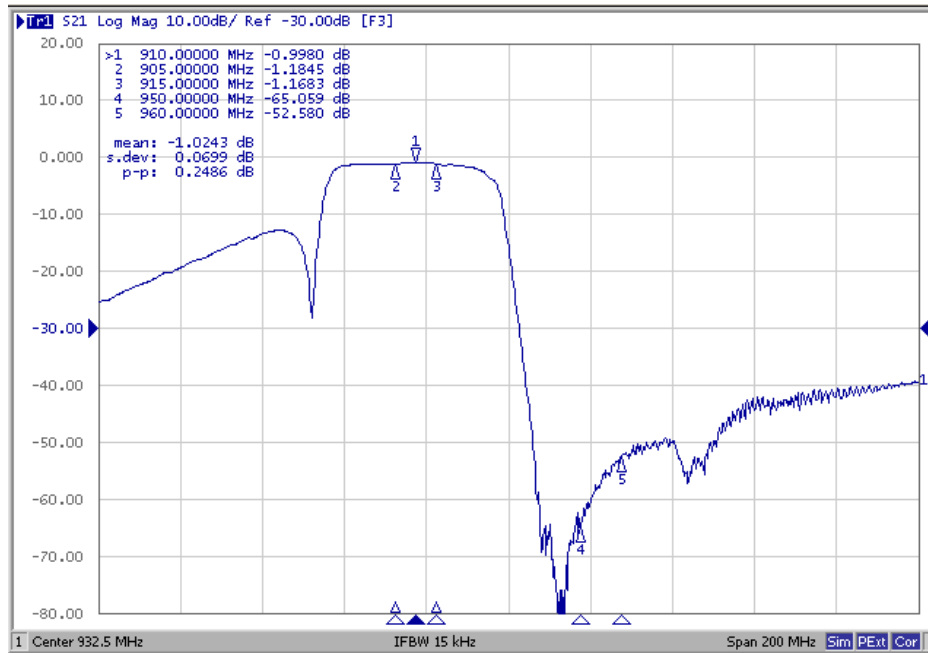
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Tx (910.0 MHz)
H	Rx (955.0MHz)

**Testing Environment**

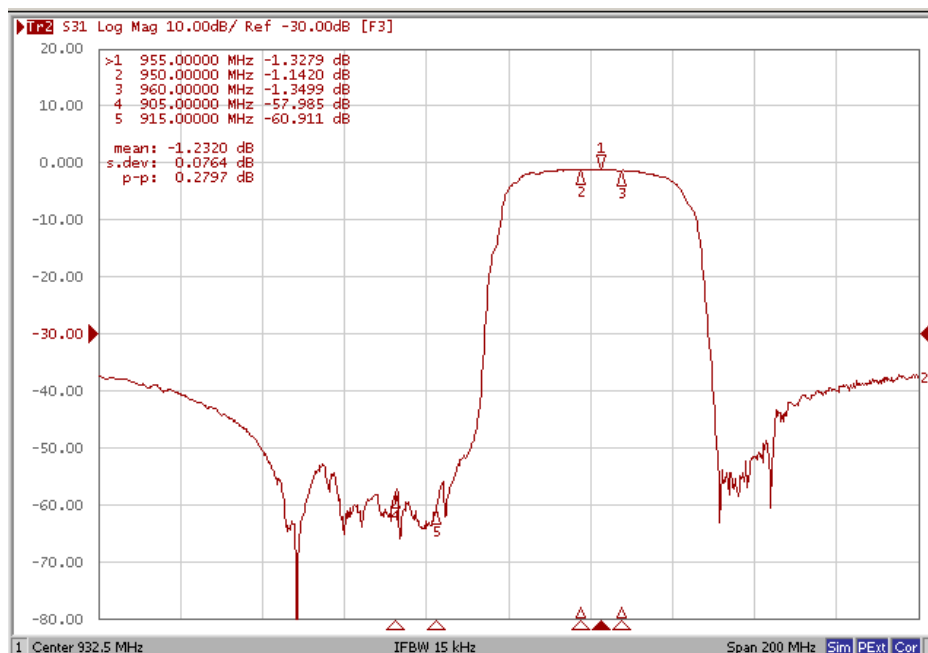


### Frequency Characteristics

#### Tx to Ant

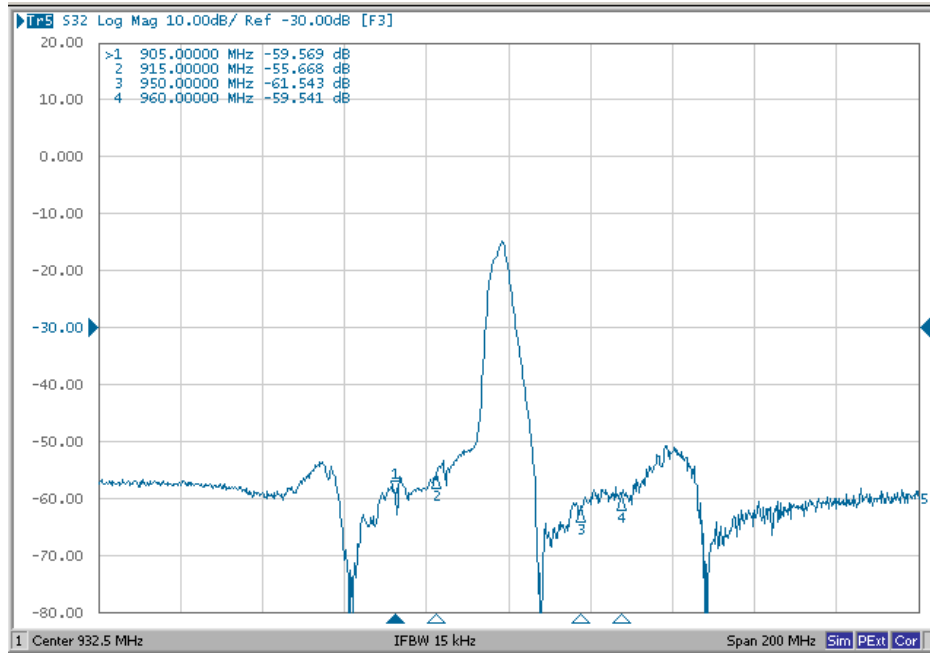


#### Ant to Rx



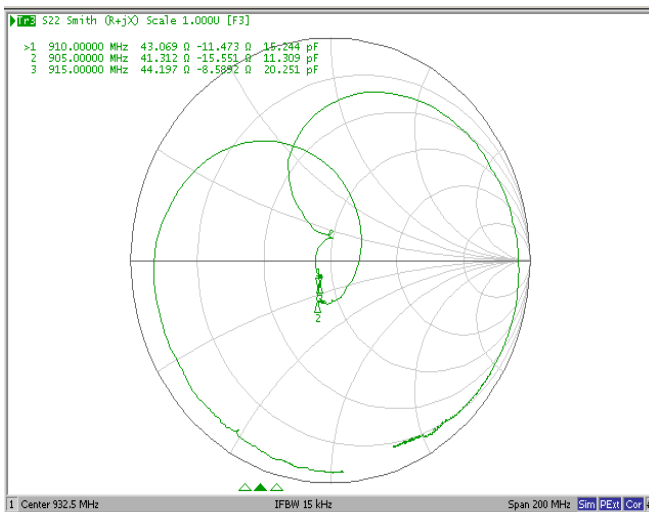


### Isolation

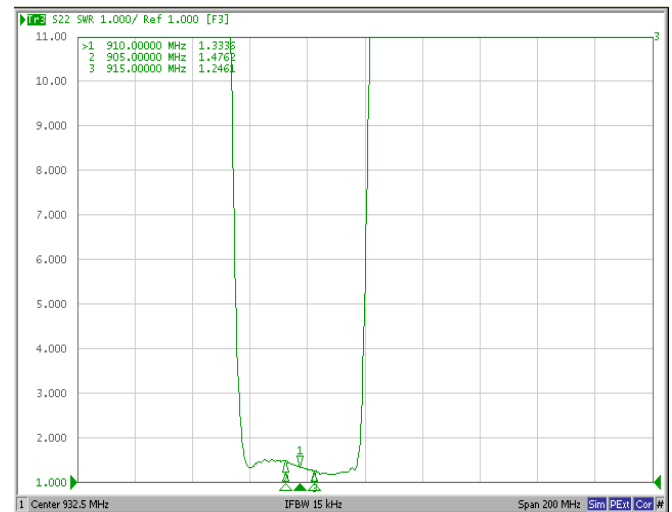


### Tx Part

#### Smith Chart

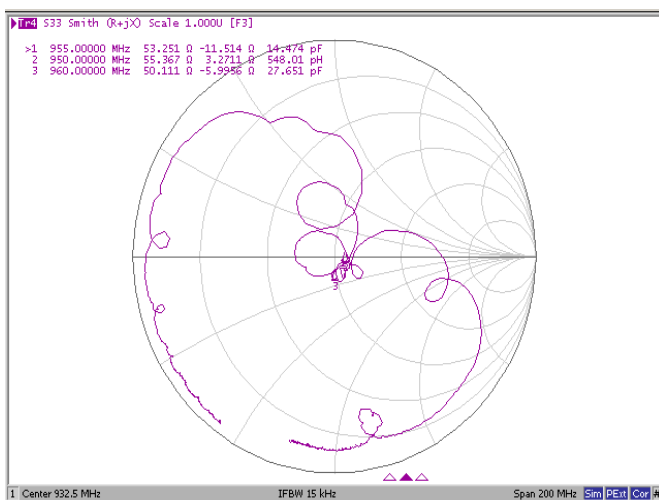


#### VSWR

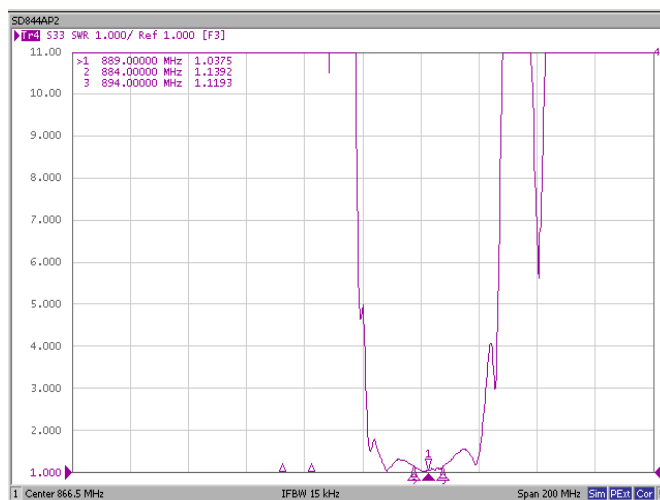


### Rx Part

**Smith Chart**

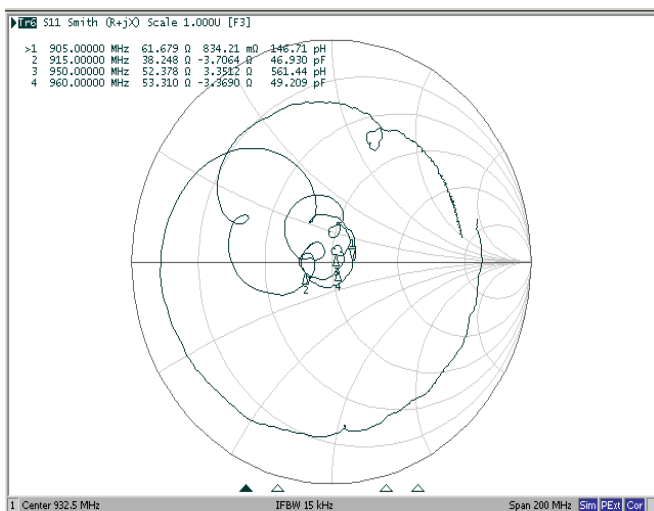


**VSWR**



### Antenna

**Smith Chart**



**VSWR**

