



Total Solution Provider in Saw Device

SD910CP3

SAW DUPLEXER For 910.0 MHz / 955.0 MHz
Revision 0: July 2011



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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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		P3		
Length x Width	mm ²	-	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	-	1.6	2.5
Amplitude Ripple	905.0 ~ 915.0	dB _{p-p}	-	0.4	1.0
VSWR	905.0 ~ 915.0	-	-	1.4	2.0
Absolute Attenuation	950.0 ~ 960.0	dB	45	53	-

Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	950.0 ~ 960.0	dB	-	1.5	2.5
Amplitude Ripple	950.0 ~ 960.0	dB _{p-p}	-	0.4	1.0
VSWR	950.0 ~ 960.0	-	-	1.4	2.0
Absolute Attenuation	905.0 ~ 915.0	dB	40	45	-



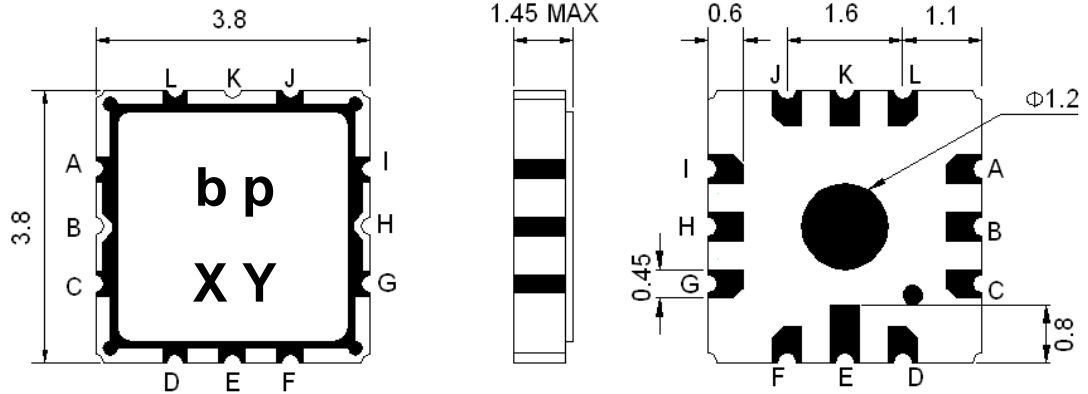
SD910CP3

SAW DUPLEXER FOR 910.0 MHz / 955.0MHz

Tx → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	905.0 ~ 915.0	dB	40	45	-
	950.0 ~ 960.0	dB	45	55	-

Notes : (1) No Matching Network .

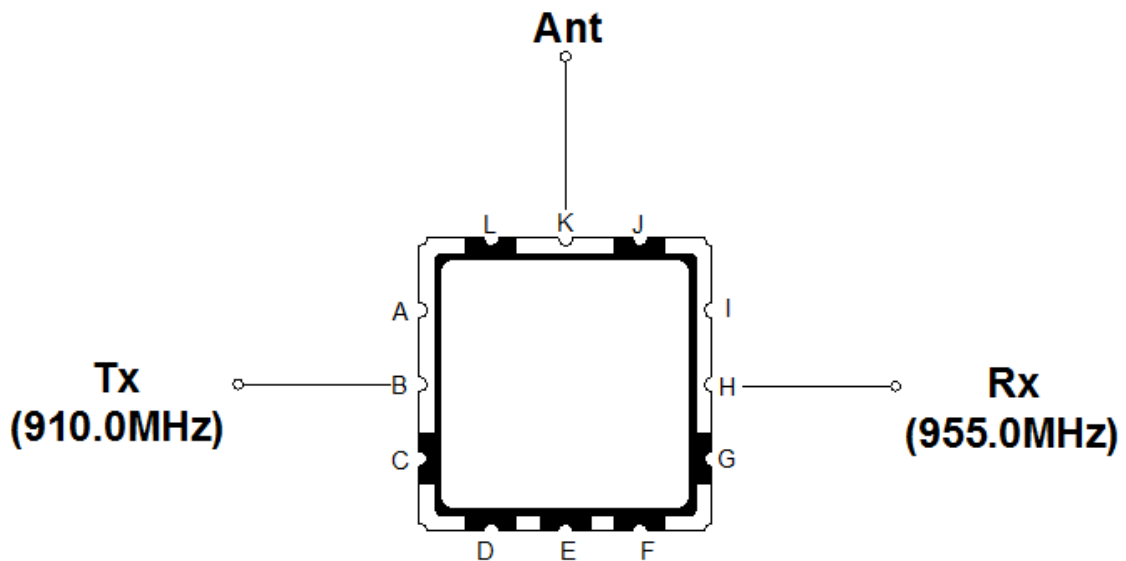
Package Dimensions



Marking Descriptions	
b	Wireless Application
p	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 (910.0MHz)
H	Rx (955.0MHz)

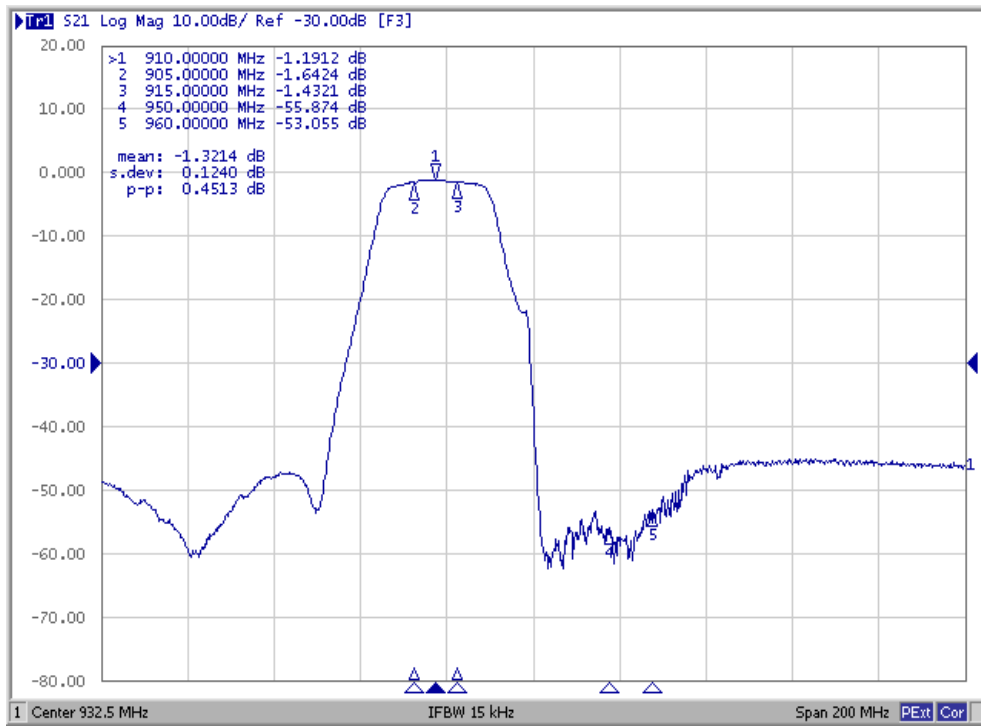
Testing Environment



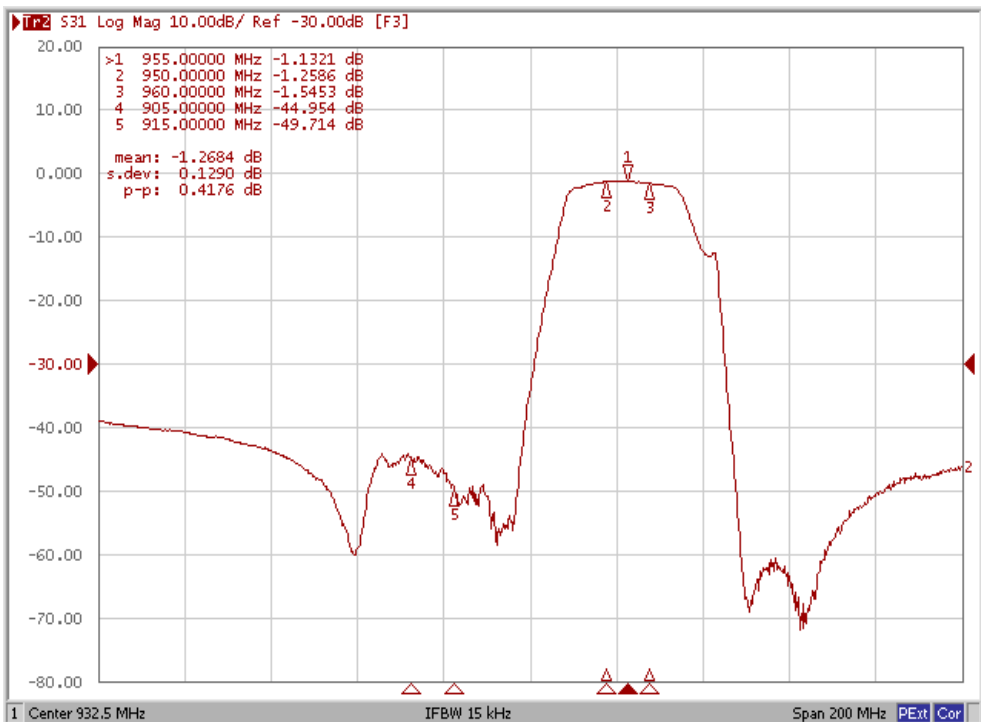


Frequency Characteristics

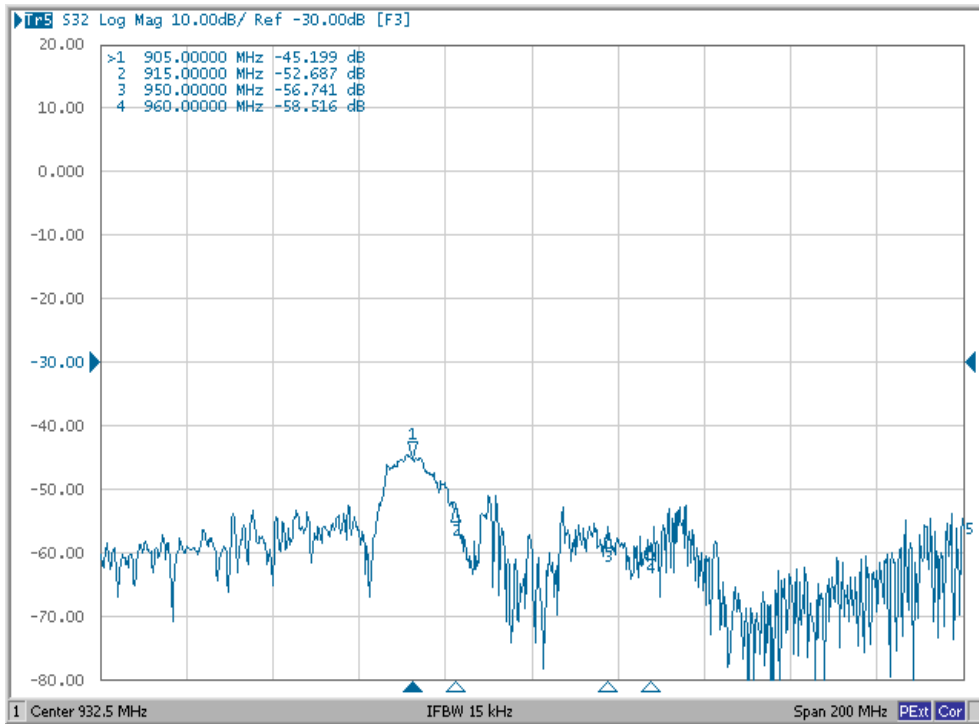
Tx to Ant



Ant to Rx

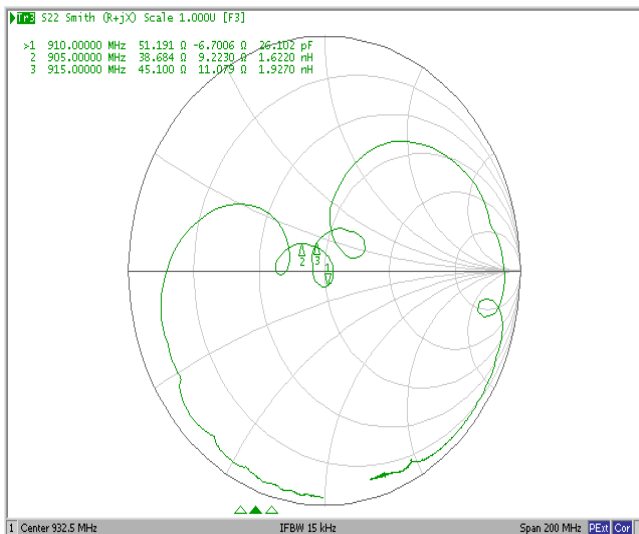


Isolation

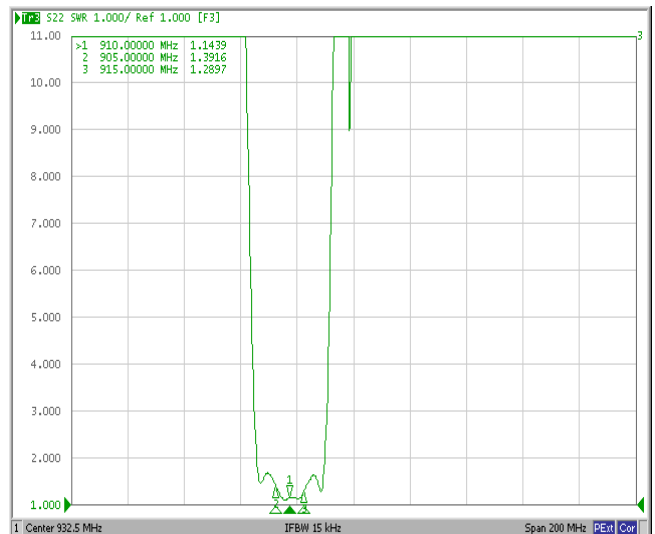


Tx Part

Smith Chart



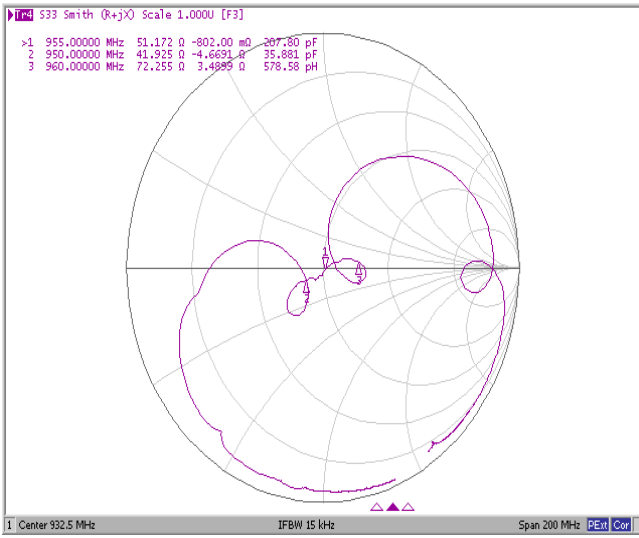
VSWR



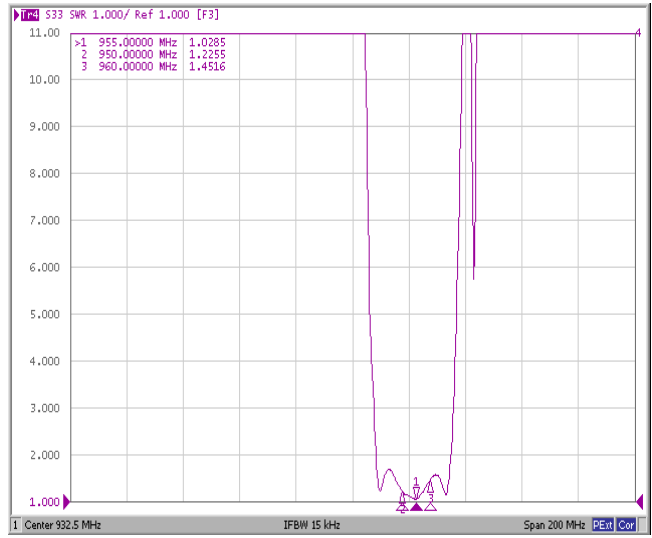


Rx Part

Smith Chart

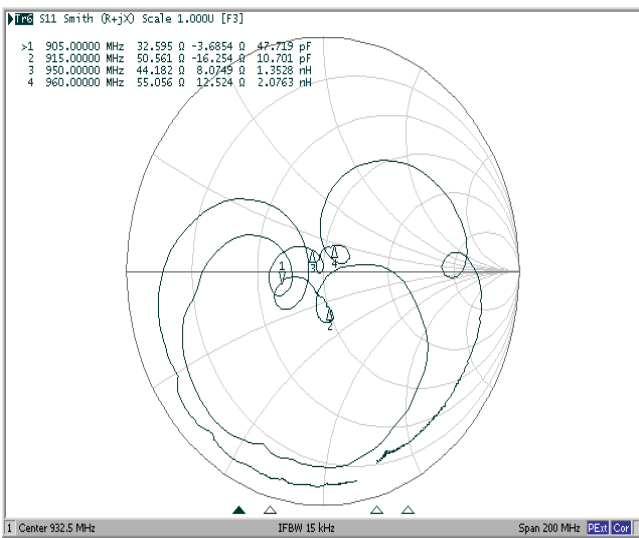


VSWR



Antenna

Smith Chart



VSWR

