



*Total Solution Provider in Saw Device*

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# SD800AP2

SAW DUPLEXER For 800 MHz / 842 MHz  
Revision 0: September ,2009



- 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	-	+85
Storage Temperature Range		-40	-	+85
Maximum DC Voltage	V	0		
Maximum Input Power	W	0.5 W > 50000 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**

Rx_800MHz		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	790.0 ~ 810.0	dB	-	1.8	2.5
Ripple	790.0 ~ 810.0	dB	-	0.8	1.5
VSWR	790.0 ~ 810.0	-	-	1.7	2.2
Absolute Attenuation	832.0 ~ 852.0	dB	45	50	-

Tx_842MHz		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	832.0 ~ 852.0	dB	-	2.0	3.0
Ripple	832.0 ~ 852.0	dB	-	0.8	1.5
VSWR	832.0 ~ 852.0	-	-	1.6	2.2
Absolute Attenuation	790.0 ~ 810.0	dB	45	50	-



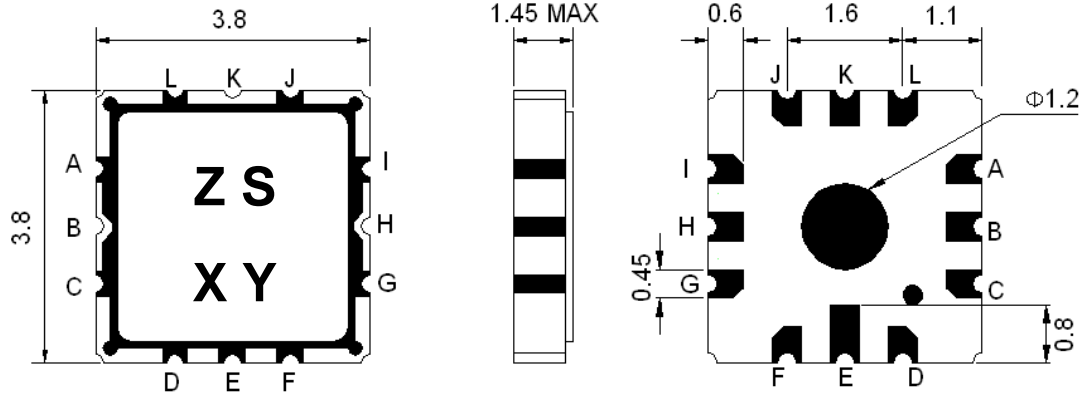
SD800AP2

SAW DUPLEXER FOR 800 MHz / 842MHz

Rx _ Tx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	790.0 ~ 810.0	dB	45	50	-
	832.0 ~ 852.0	dB	45	50	-

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

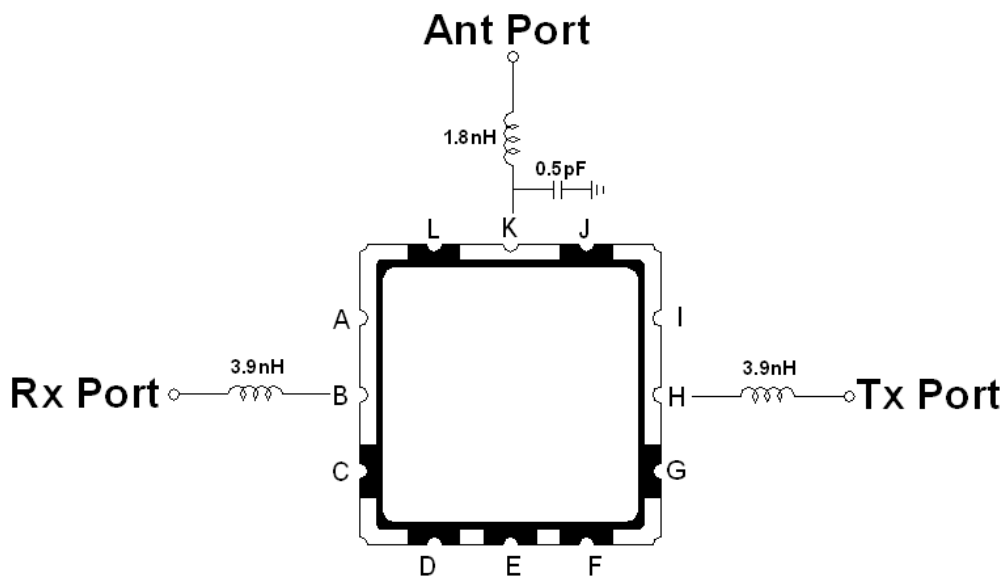
**Package Dimensions**



Marking Descriptions	
Z	Wireless Application
S	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant Port
B	Rx Port (800.0MHz)
H	Tx Port (842.0MHz)

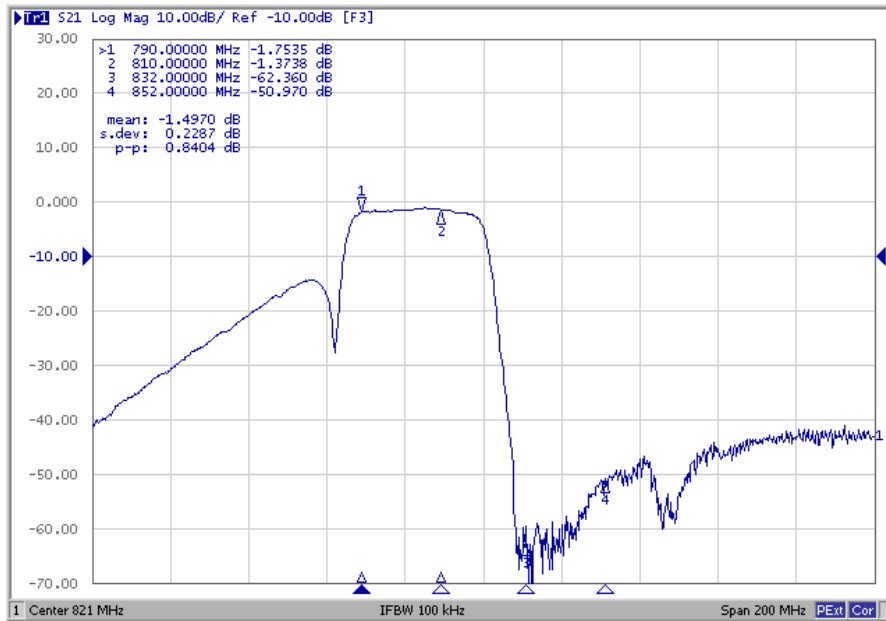
**Testing Environment**



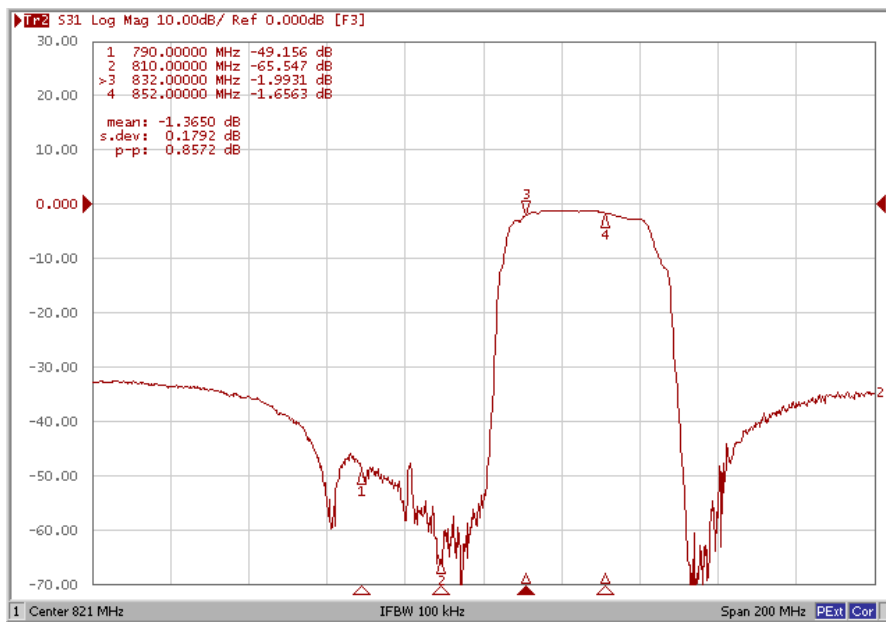


### □ Frequency Characteristics

Rx\_800MHz to Ant

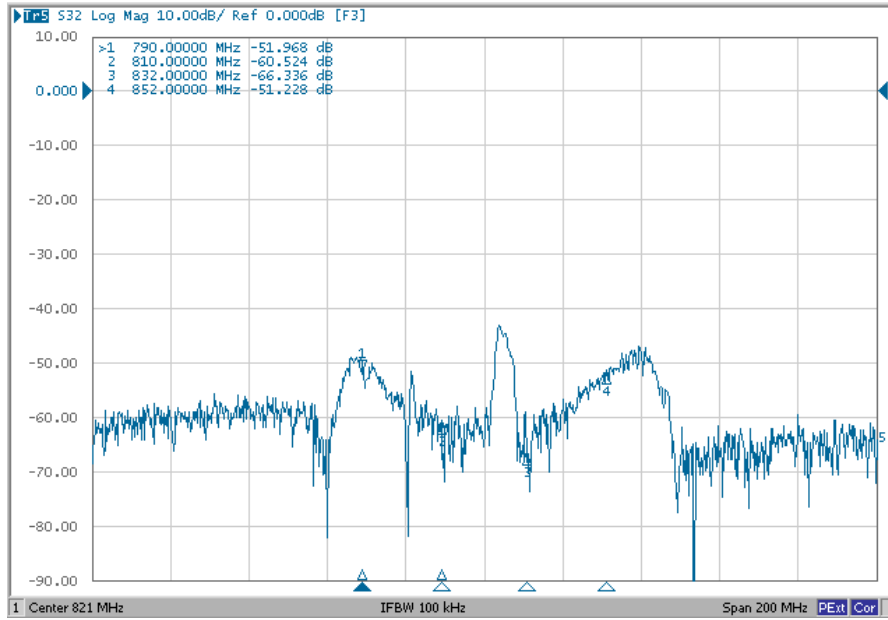


Tx\_842.0MHz to Rx



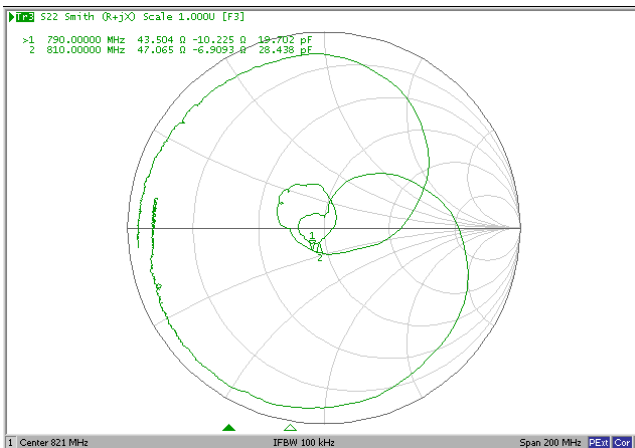


Isolation

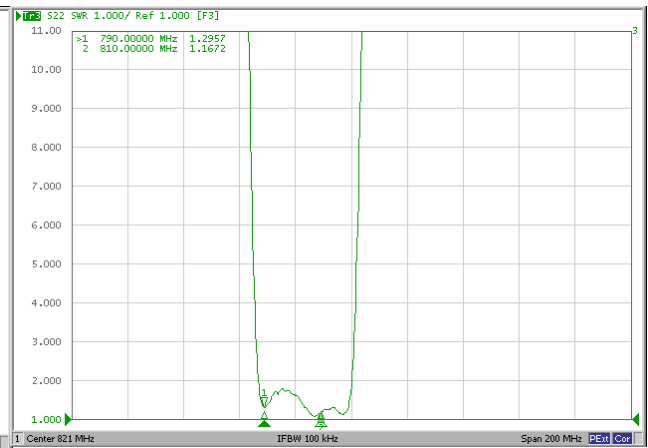


Rx Port\_800MHz

Smith Chart



VSWR

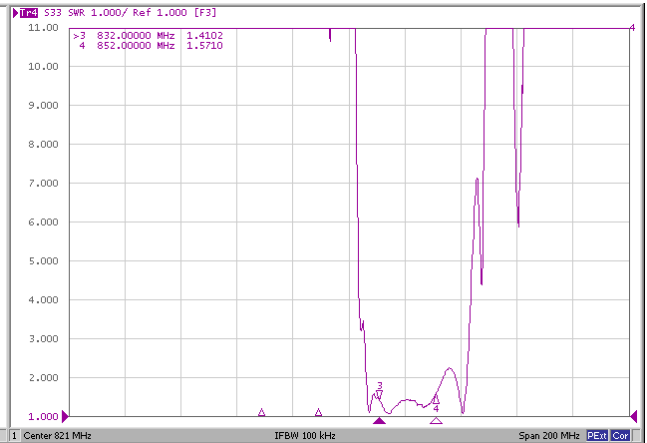
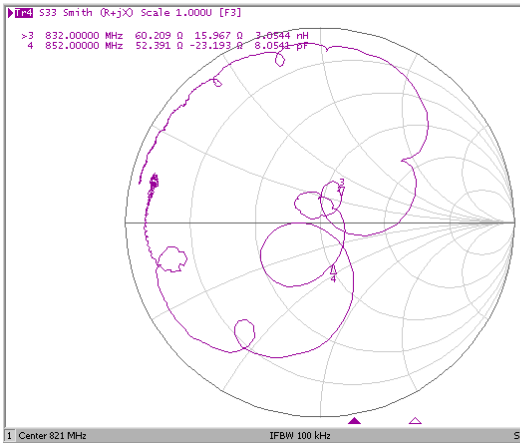




Tx Port\_842MHz

Smith Chart

VSWR



Ant Port

Smith Chart

VSWR

