



*Total Solution Provider in Saw Device*

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# SD806BP2

LTE, SAW DUPLEXER For 806 MHz / 847 MHz  
Revision 0: January ,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		P2		
Length x Width	mm <sup>2</sup>	-	3.8 x 3.8	-
Height	mm	-	-	1.45

#### Electrical Specification

Uplink → Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	832.0 ~ 862.0	dB	-	2.8	4.5
Amplitude Ripple	832.0 ~ 862.0	dB <sub>p-p</sub>	-	1.5	2.3
VSWR	832.0 ~ 862.0	-	-	1.9	2.5
Absolute Attenuation	791.0 ~ 821.0	dB	35	45	-

Ant → Downlink		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	791.0 ~ 821.0	dB	-	2.0	4.0
Amplitude Ripple	791.0 ~ 821.0	dB <sub>p-p</sub>	-	1.2	2.2
VSWR	791.0 ~ 821.0	-	-	1.6	2.3
Absolute Attenuation	832.0 ~ 862.0	dB	25	34	-



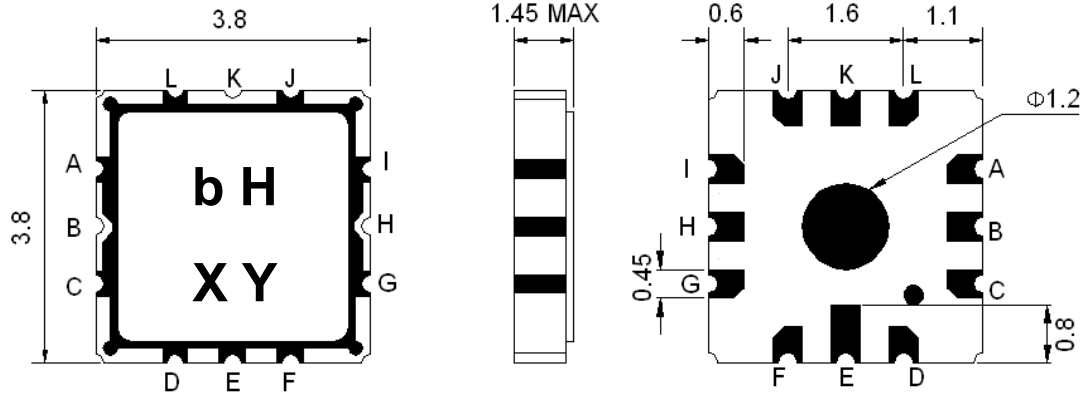
SD806BP2

SAW DUPLEXER FOR 806 MHz / 847MHz

Downlink → Uplink		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	832.0 ~ 862.0	dB	30	35	-
	791.0 ~ 821.0	dB	35	45	-

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

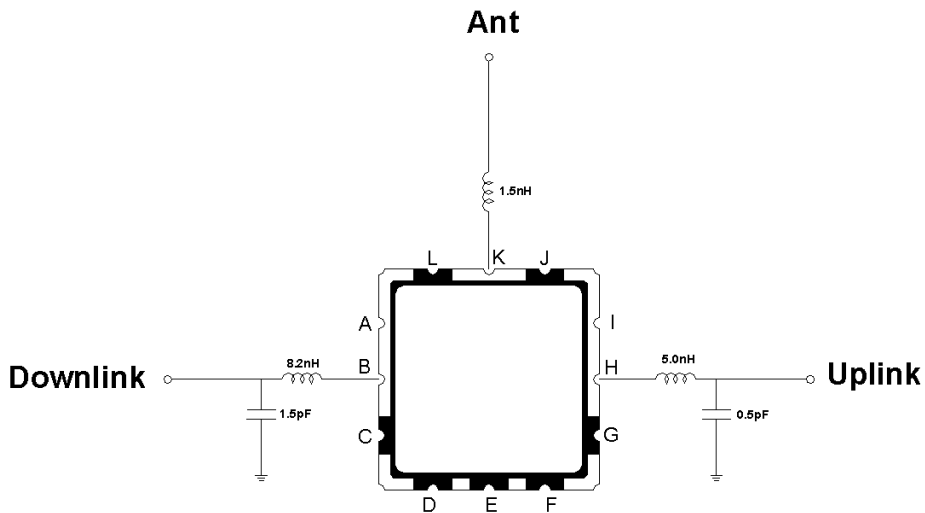
**Package Dimensions**



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

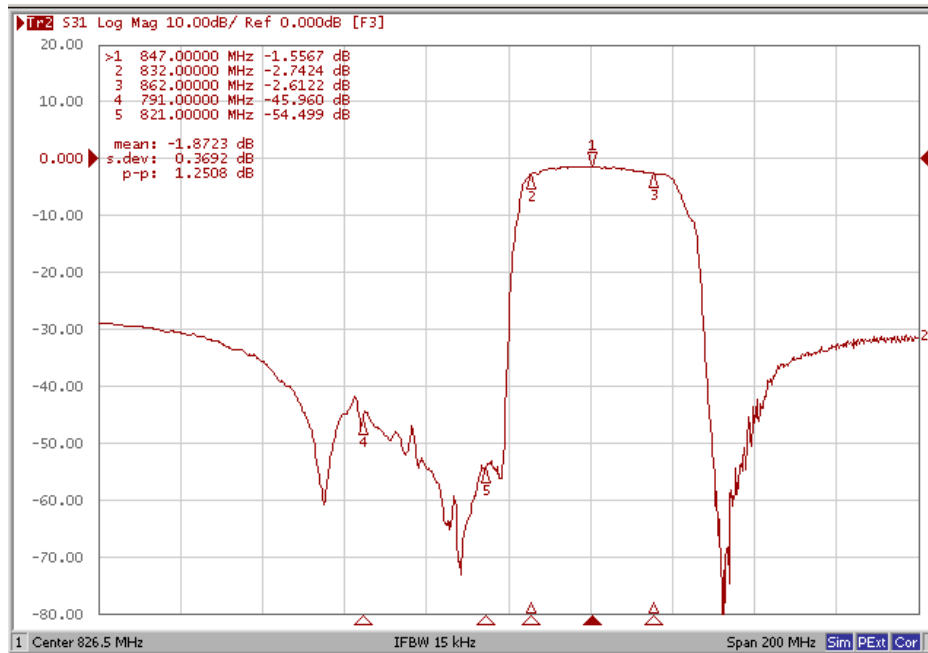
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Downlink (806.0MHz)
H	Uplink (847.0 MHz)

**Testing Environment**

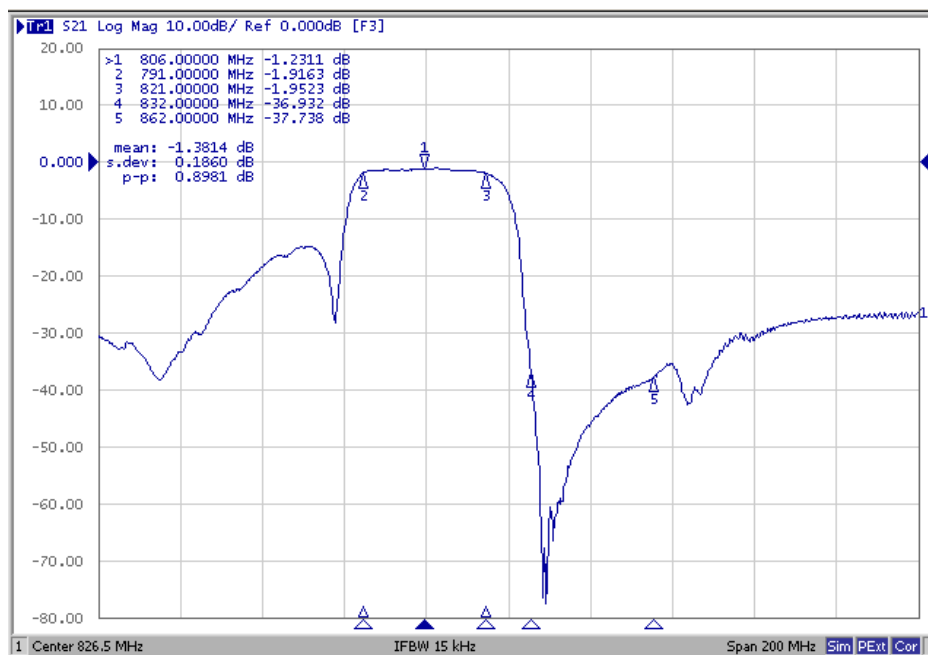


**Frequency Characteristics**

**Uplink to Ant**

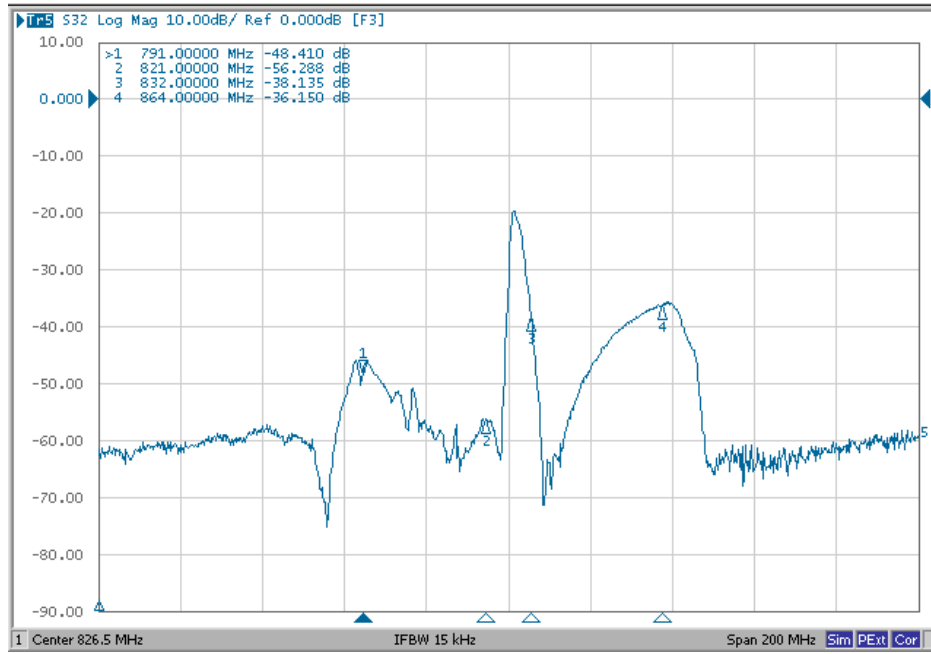


**Ant to Downlink**



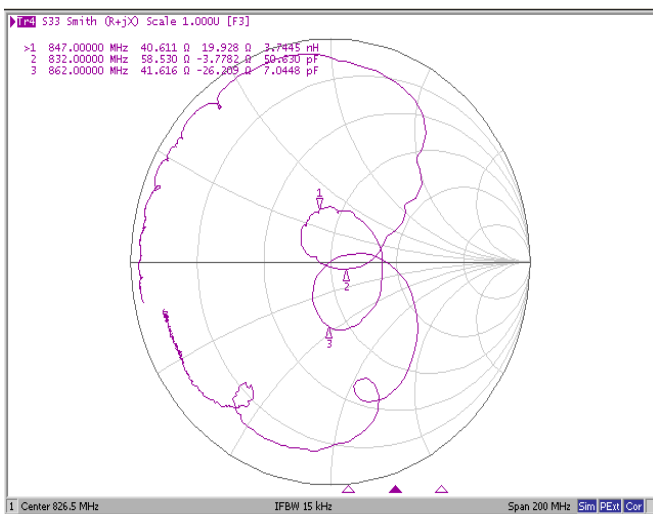


### Isolation

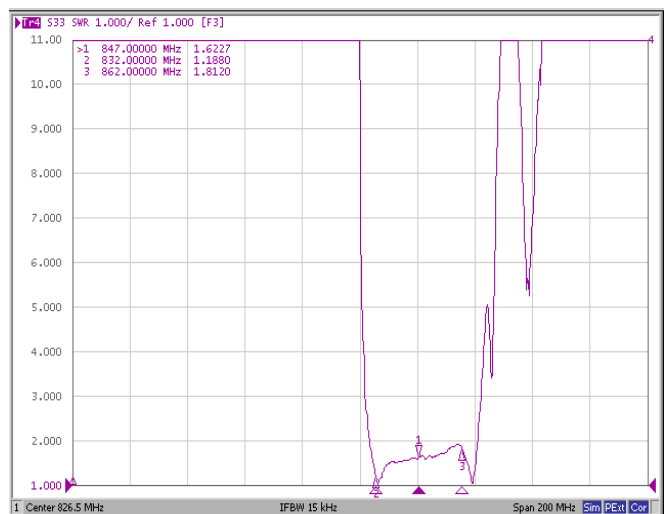


### Uplink

#### Smith Chart



#### VSWR

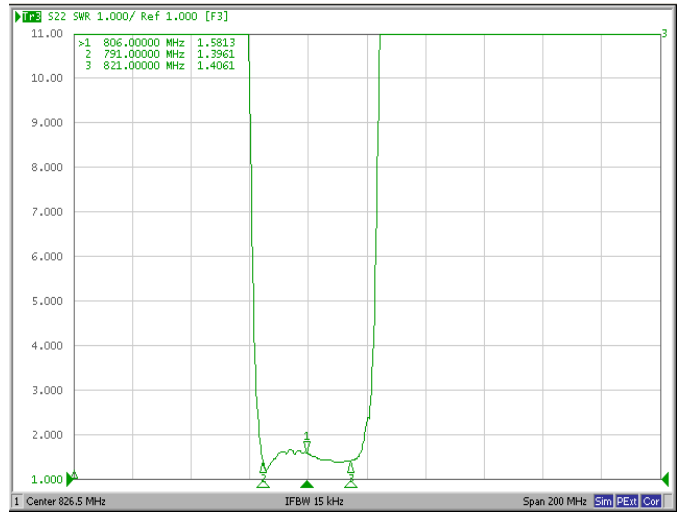
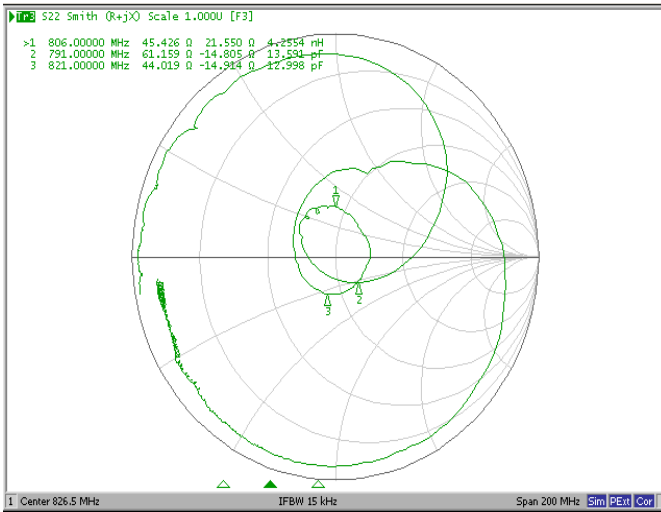




Downlink

Smith Chart

VSWR



Antenna

Smith Chart

VSWR

