

- LTE, SAW DUPLEXER For 806 MHz / 847 MHz
- Revision 0: September 2010

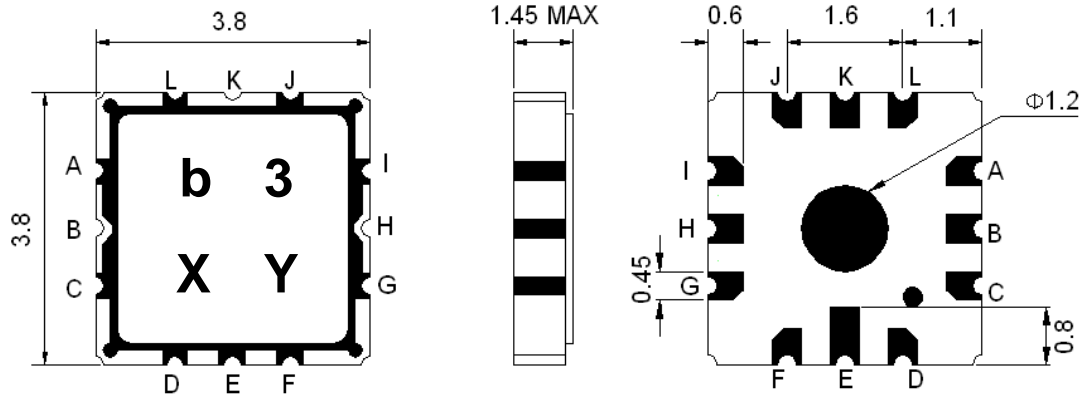
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating 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					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Uplink → Ant		Specifications			
Insertion Loss	832.0 ~ 862.0	dB	-	3.0	4.5
Amplitude Ripple	832.0 ~ 862.0	dB <sub>p-p</sub>	-	1.6	2.3
VSWR	832.0 ~ 862.0	-	-	1.7	2.5
Absolute Attenuation	791.0 ~ 821.0	dB	35	45	-
Ant → Downlink		Specifications			
Insertion Loss	791.0 ~ 821.0	dB	-	2.0	4.0
Amplitude Imbalance	791.0 ~ 821.0	dB <sub>p-p</sub>	-	1.2	2.2
VSWR	791.0 ~ 821.0	-	-	1.5	2.3
Absolute Attenuation	832.0 ~ 862.0	dB	25	34	-
Downlink → Uplink		Specifications			
Isolation	832.0 ~ 862.0	dB	30	35	-
	791.0 ~ 821.0	dB	35	45	-

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

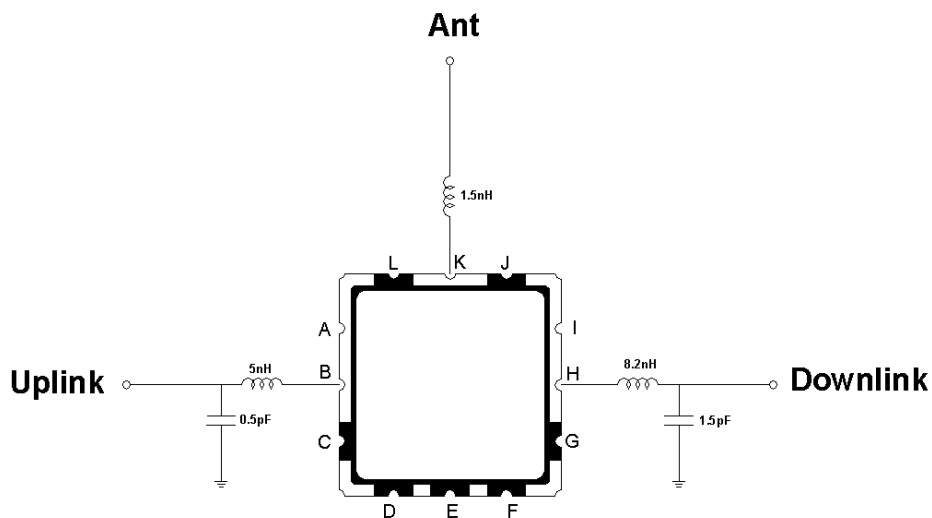
## Package Dimensions



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

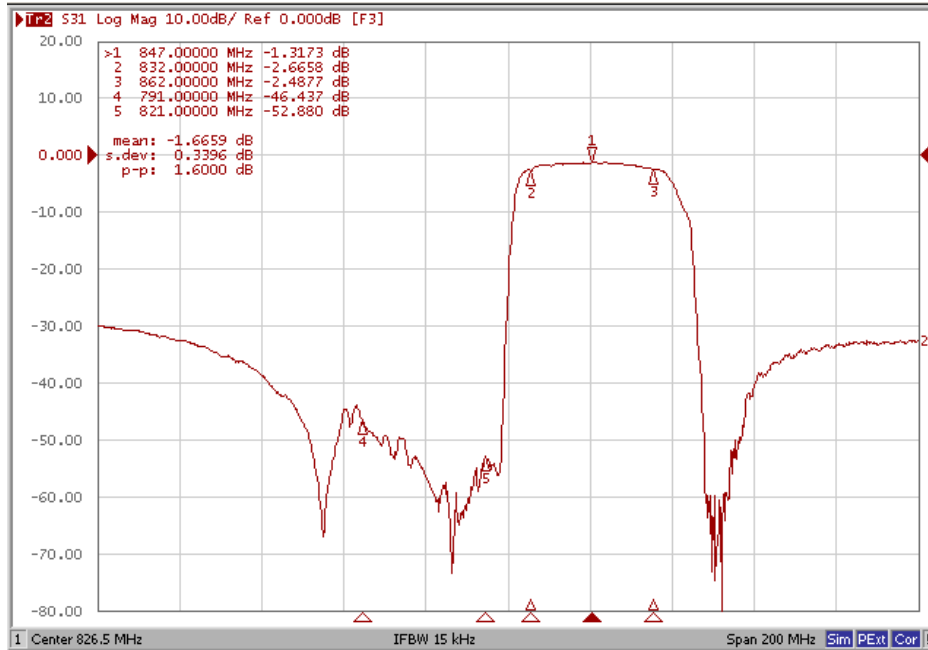
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Uplink (847.0 MHz)
H	Downlink (806.0MHz)

## Testing Environment

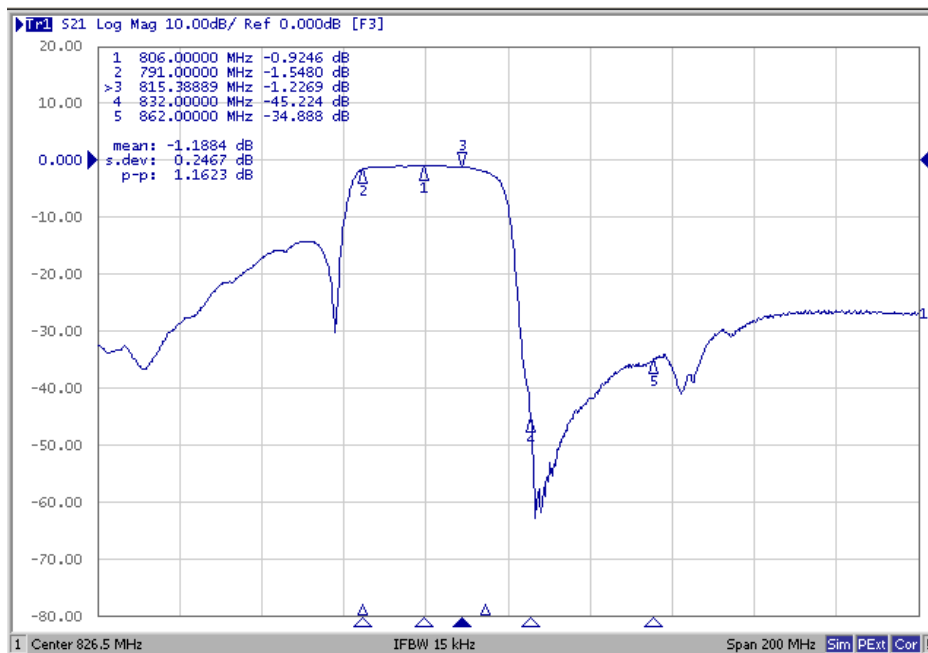


## Frequency Characteristics

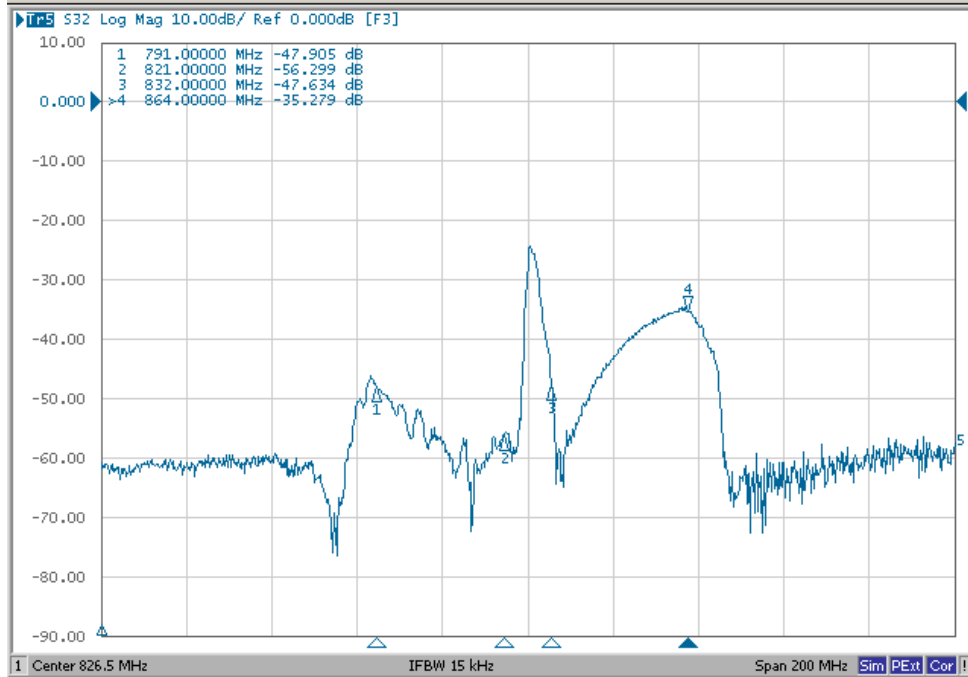
**Uplink to Ant**



**Ant to Downlink**



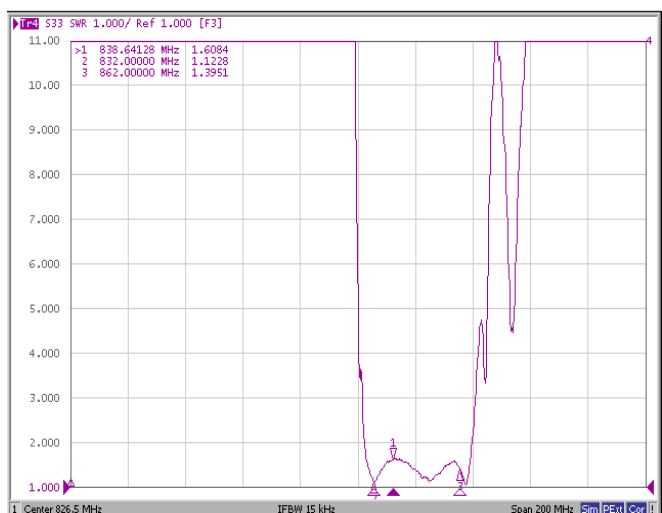
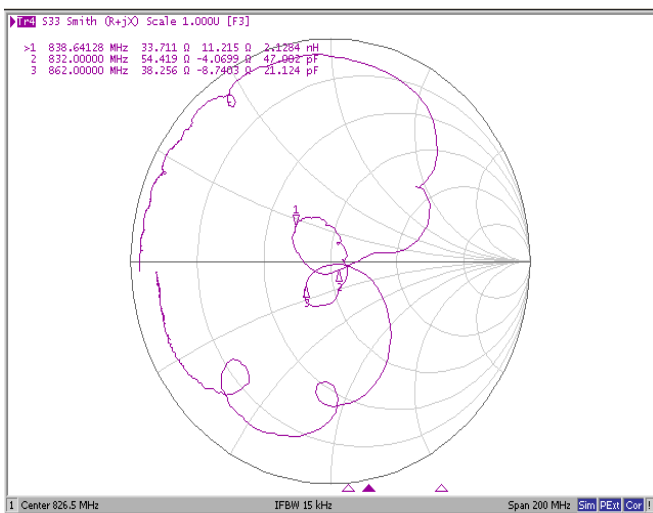
**Isolation**



**Uplink**

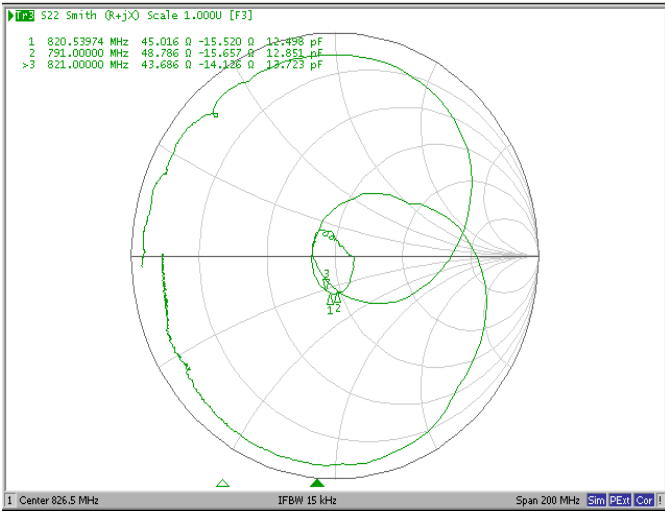
**Smith Chart**

**VSWR**

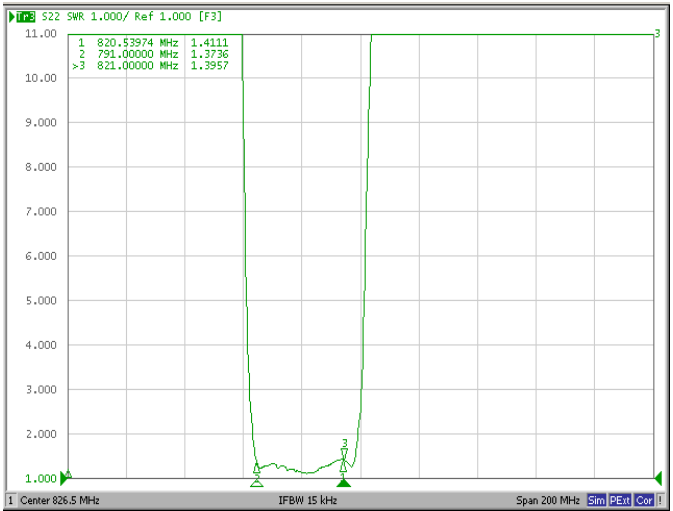


**Downlink**

**Smith Chart**

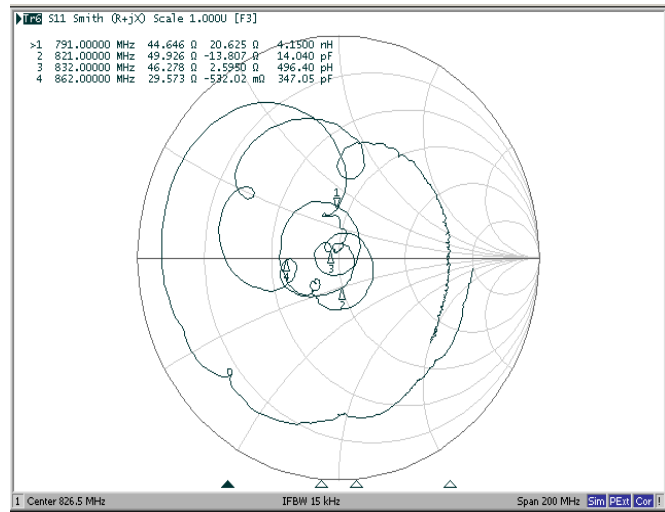


**VSWR**



**Antenna**

**Smith Chart**



**VSWR**

