

- SAW Duplexer For 1725.0 MHz / 1820.0MHz
- Revision 0: September 2013

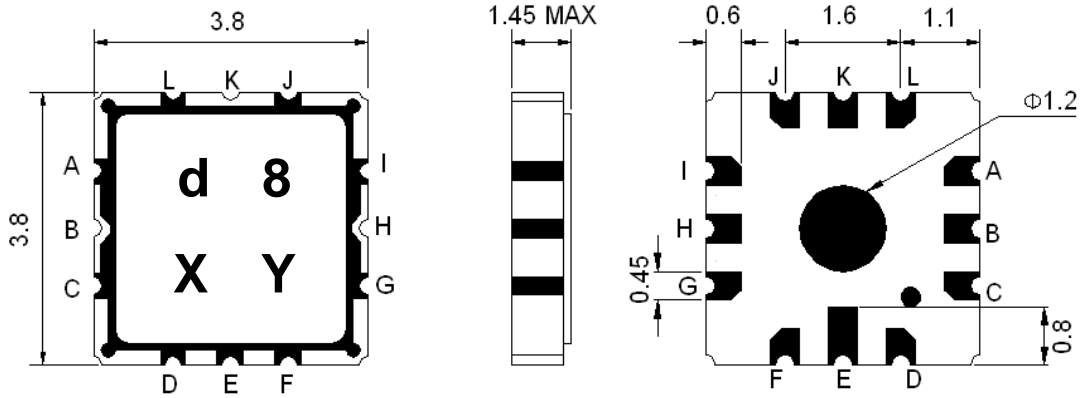
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-10	-	+60
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Maximum Input Power	dBm	28dBm > 50,000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	-	50	-
Output TX Impedance	Ω	-	50	-
Output RX Impedance	Ω	-	50	-
Package type & size	S34			
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
Tx → Ant		Specifications			
Insertion Loss	1715.0 ~ 1735.0	dB	-	1.5	3.0
Amplitude Ripple	1715.0 ~ 1735.0	dB <sub>p-p</sub>	-	0.3	1.0
VSWR	1715.0 ~ 1735.0	-	-	1.5	2.0
Absolute Attenuation	1810.0 ~ 1830.0	dB	45	53	-
Ant → Rx		Specifications			
Insertion Loss	1810.0 ~ 1830.0	dB	-	1.8	3.0
Amplitude Ripple	1810.0 ~ 1830.0	dB <sub>p-p</sub>	-	0.5	1.0
VSWR	1810.0 ~ 1830.0	-	-	1.5	2.0
Absolute Attenuation	1715.0 ~ 1735.0	dB	38	42	-
Rx → Tx		Specifications			
Isolation	1715.0 ~ 1735.0	dB	40	45	-
	1810.0 ~ 1830.0	dB	40	53	-

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

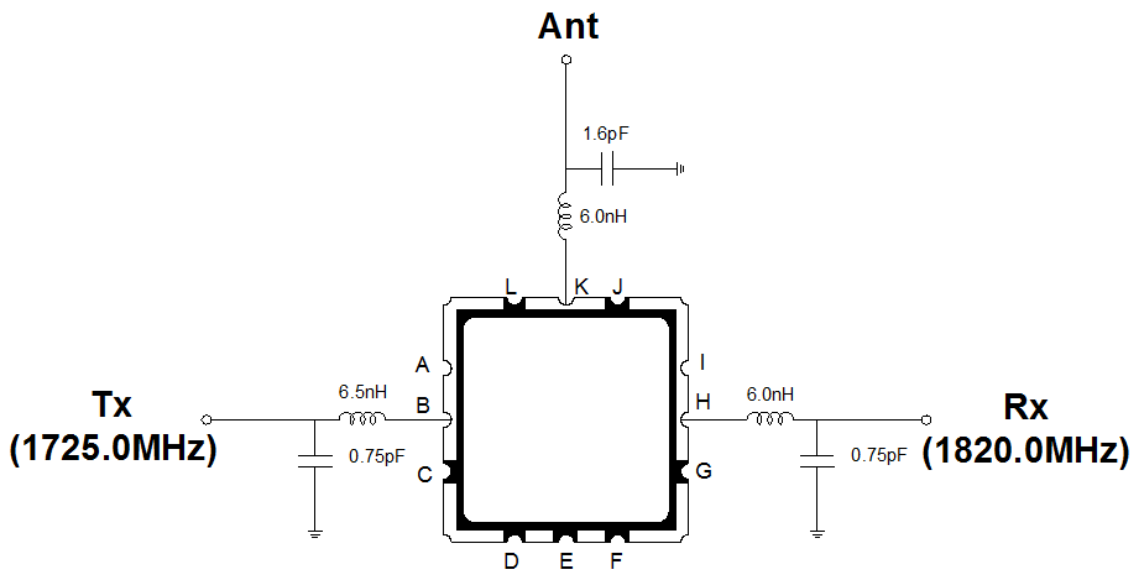
## Package Dimensions



Marking Descriptions	
d	Wireless Application
8	Series Number
X	Date Code (Year)
Y	Date Code (Month)

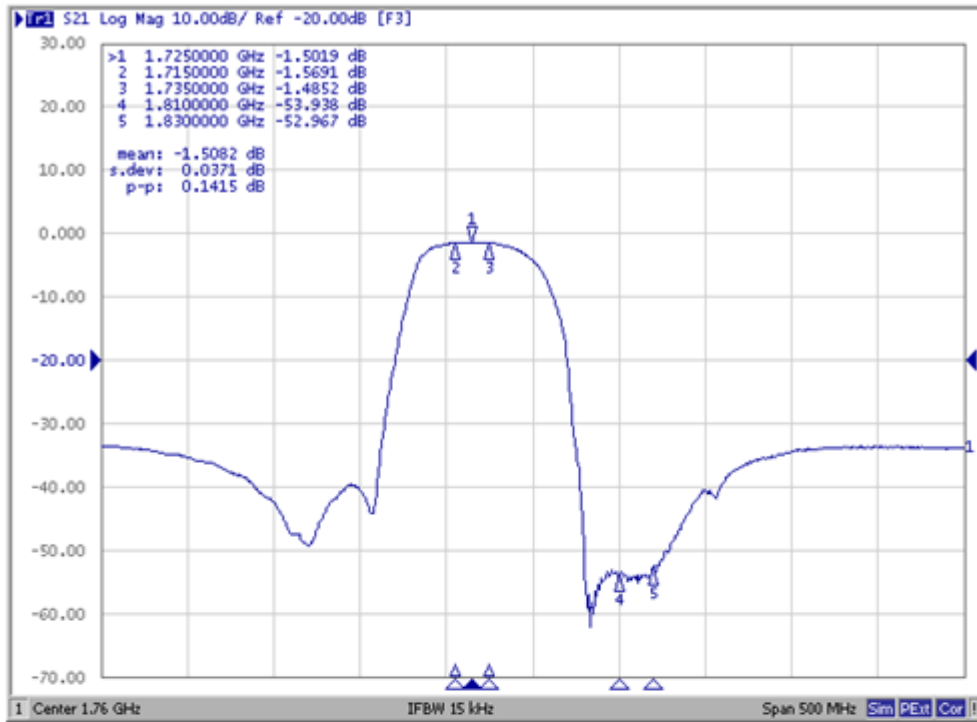
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Tx (1725.0MHz)
H	Rx (1820.0MHz)

## Testing Environment

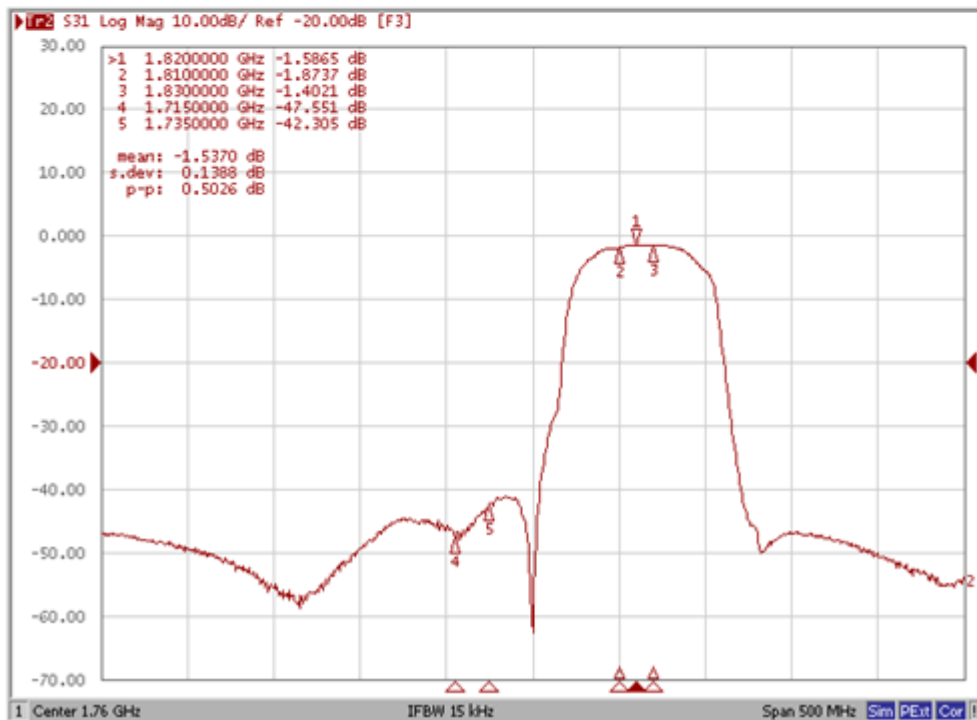


## Frequency Characteristics

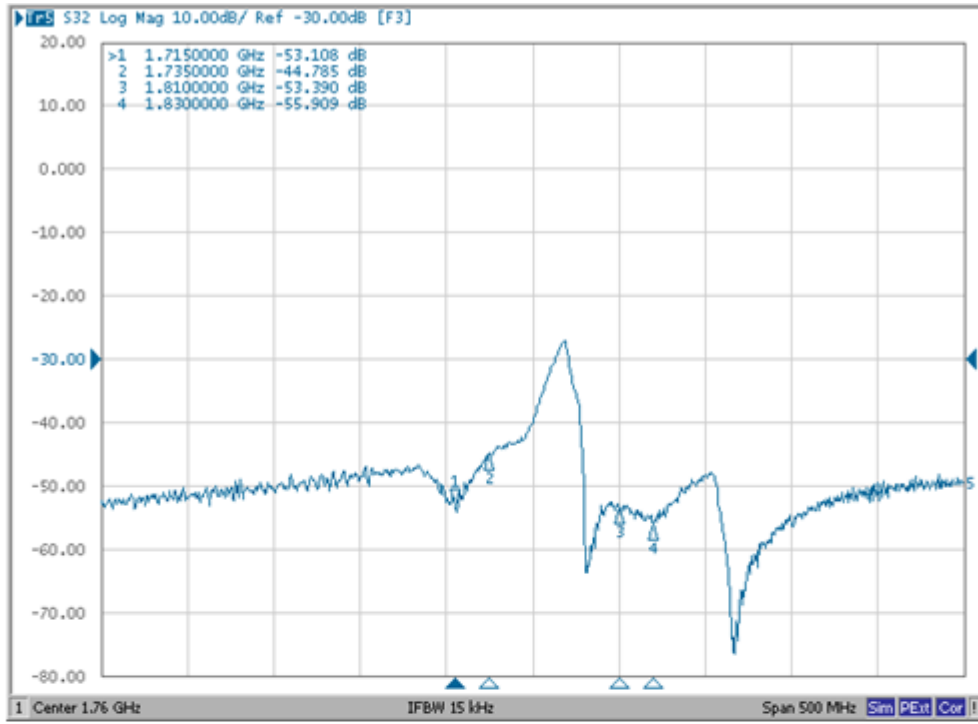
**Tx to Ant**



**Ant to Rx**

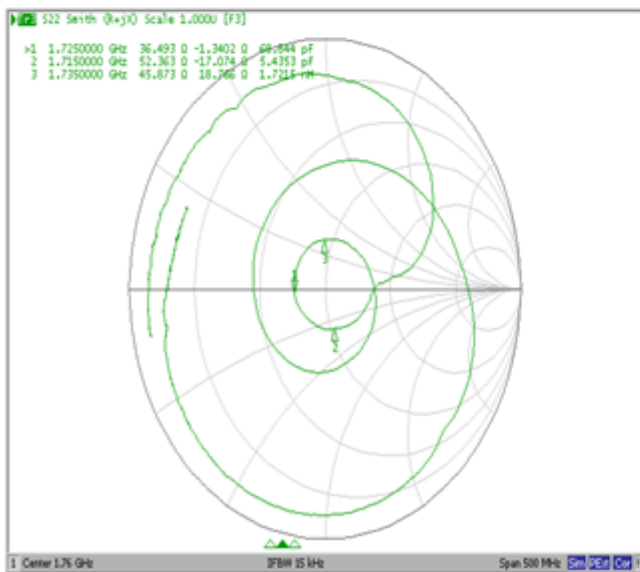


**Isolation**

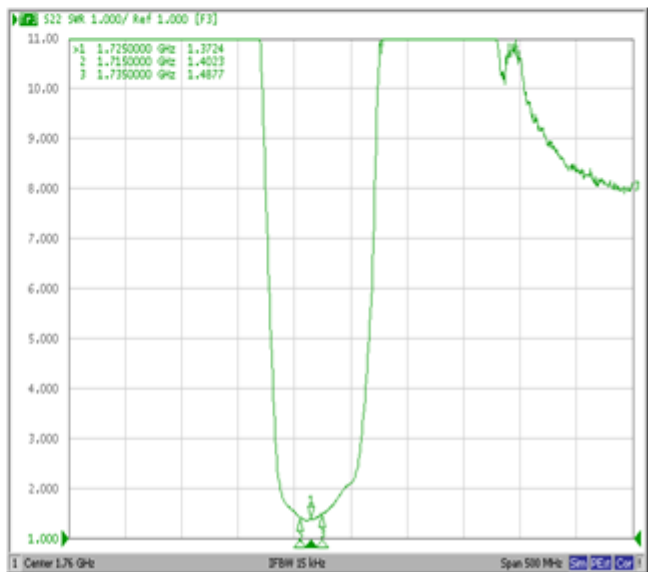


**Tx Part**

**Smith Chart**

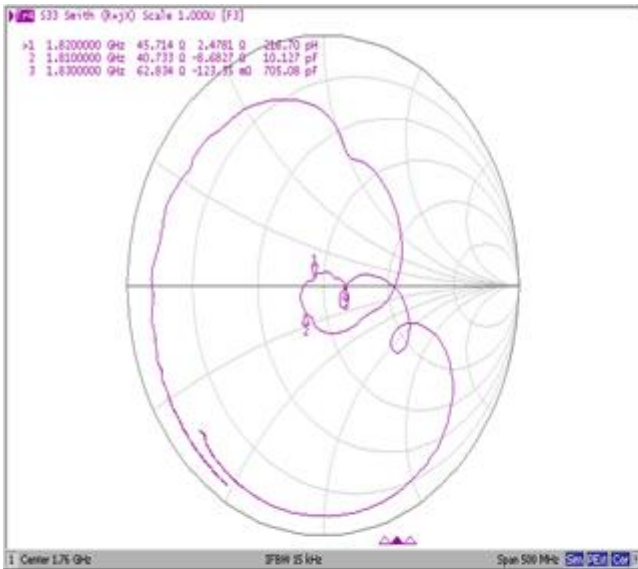


**VSWR**



**Rx Part**

**Smith Chart**

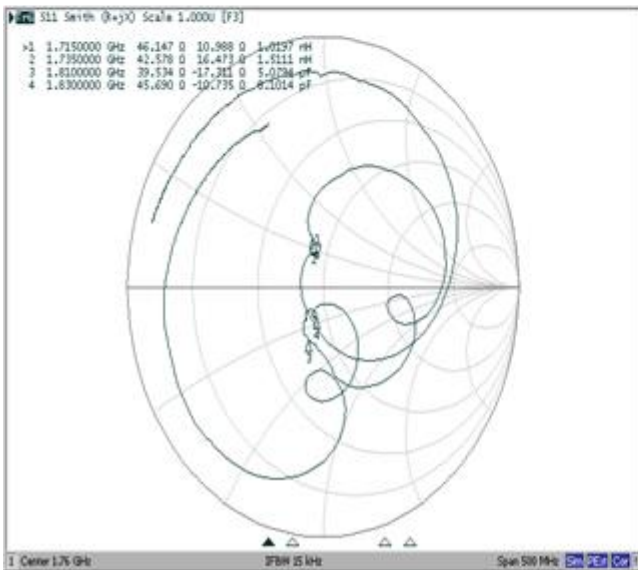


**VSWR**



**Antenna**

**Smith Chart**



**VSWR**

