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

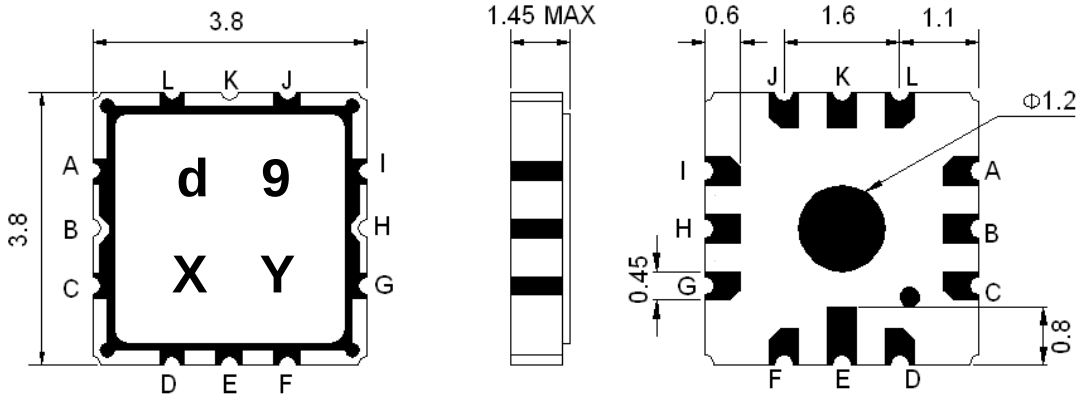
Electrical Characteristics

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^2	-	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_{p-p}	-	0.3	1.0
VSWR	1715.0 ~ 1735.0	-	-	1.5	2.0
Absolute Attenuation	1810.0 ~ 1830.0	dB	40	53	-
Ant → Rx		**Specifications**			
Insertion Loss	1810.0 ~ 1830.0	dB	-	2.0	3.0
Amplitude Ripple	1810.0 ~ 1830.0	dB_{p-p}	-	0.7	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 .

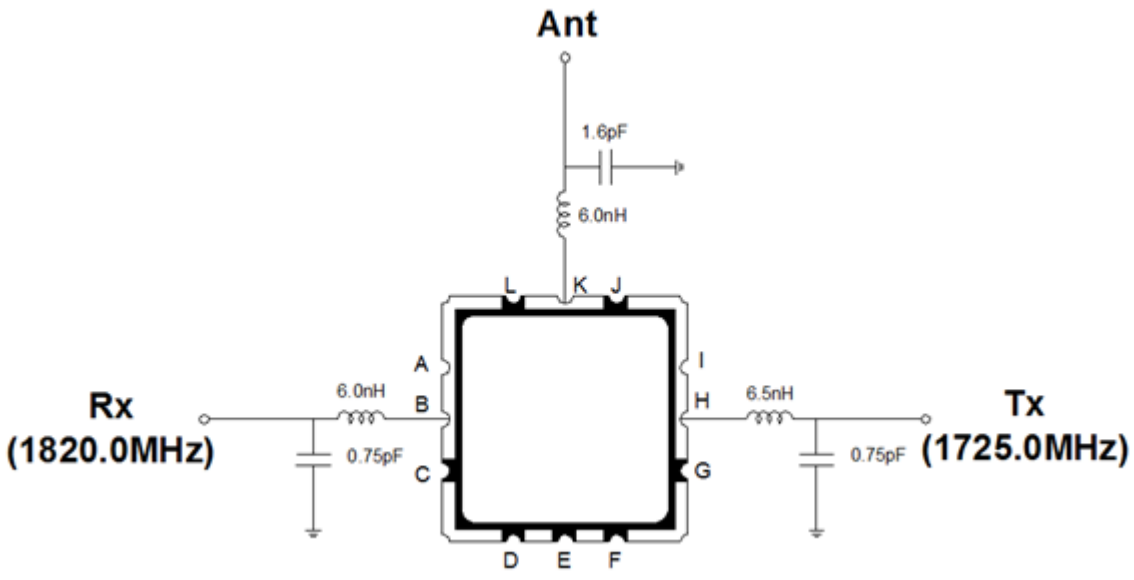
Package Dimensions



Marking Descriptions	
d	Wireless Application
9	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	Rx (1820.0MHz)
H	Tx (1725.0MHz)

Testing Environment



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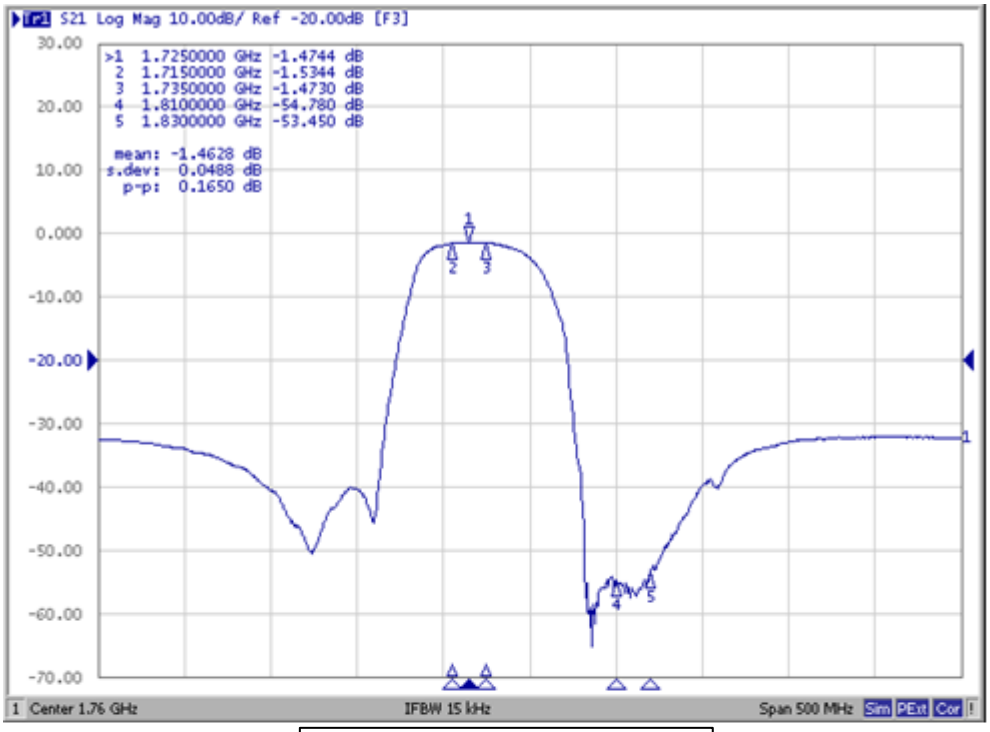
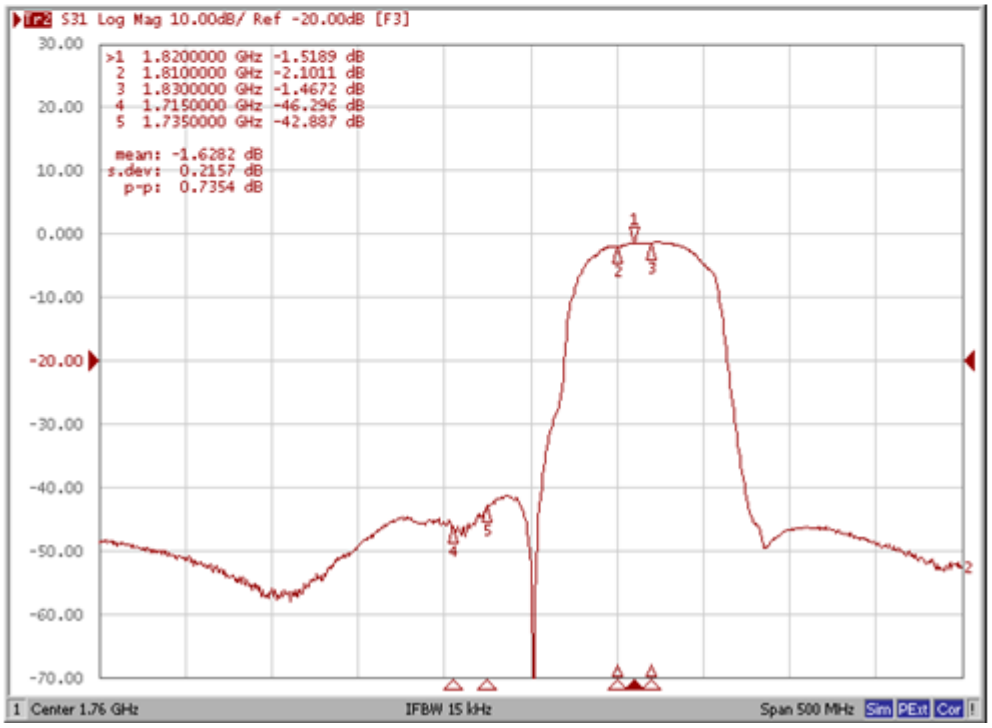
Frequency Characteristics

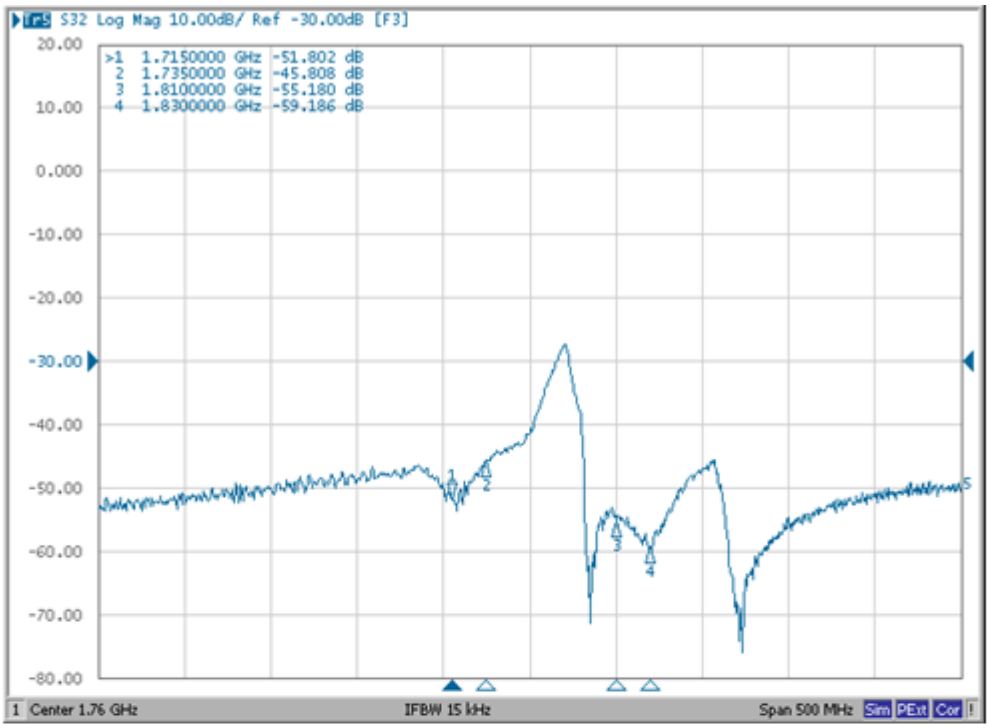
Tx to Ant



Ant to Rx

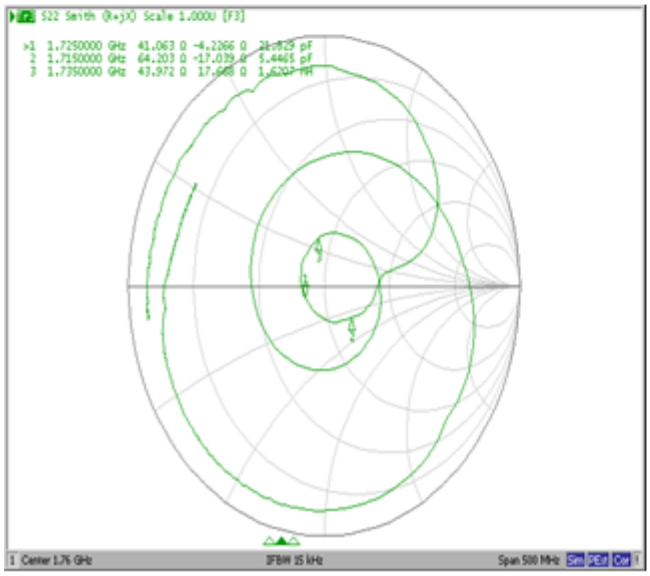


Isolation

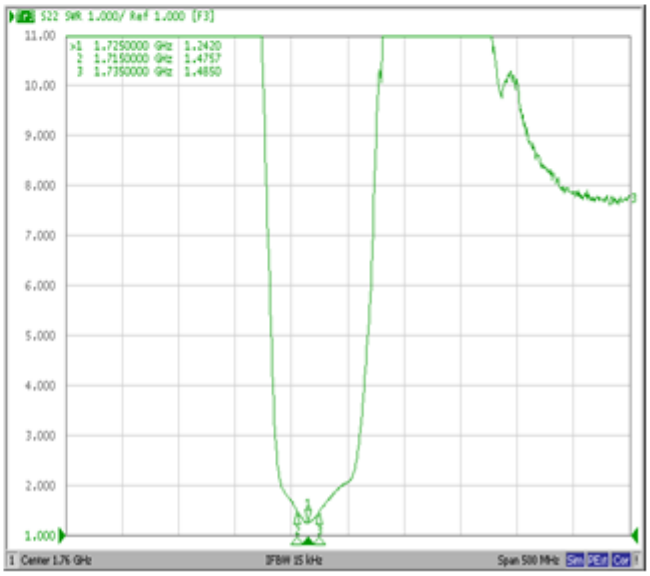


Tx Part

Smith Chart



VSWR



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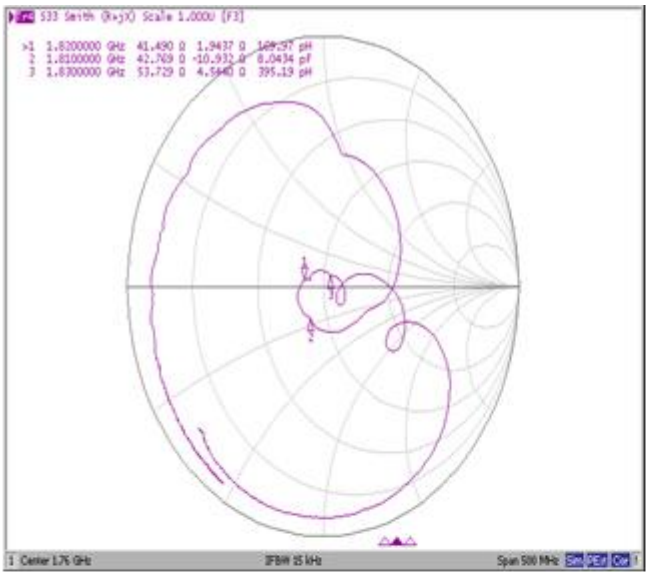
Rx Part

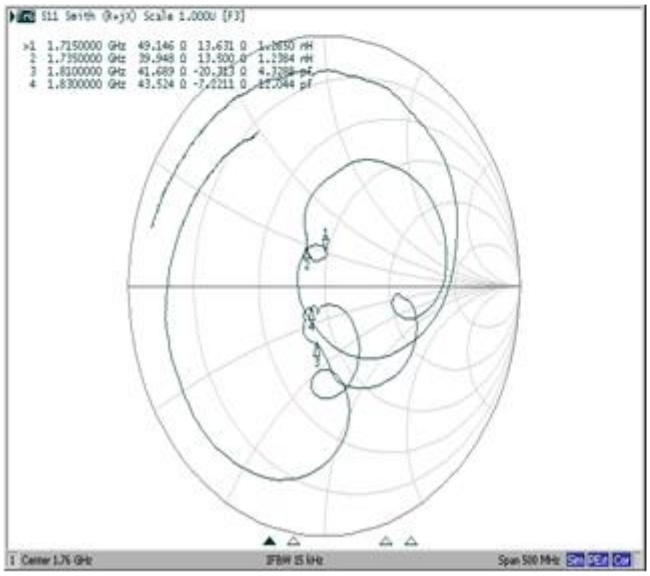
Smith Chart



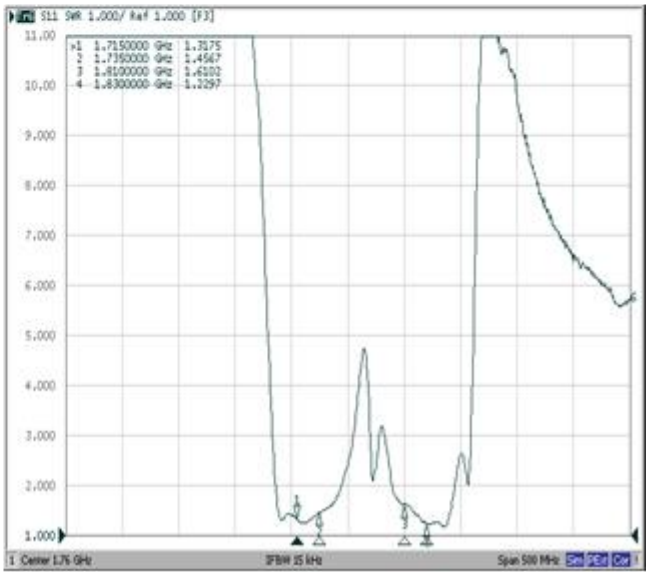
VSWR

Antenna

Smith Chart



VSWR



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