

- SAW Duplexer For 707.0MHz / 781.5MHz
- Revision 0: August 2012

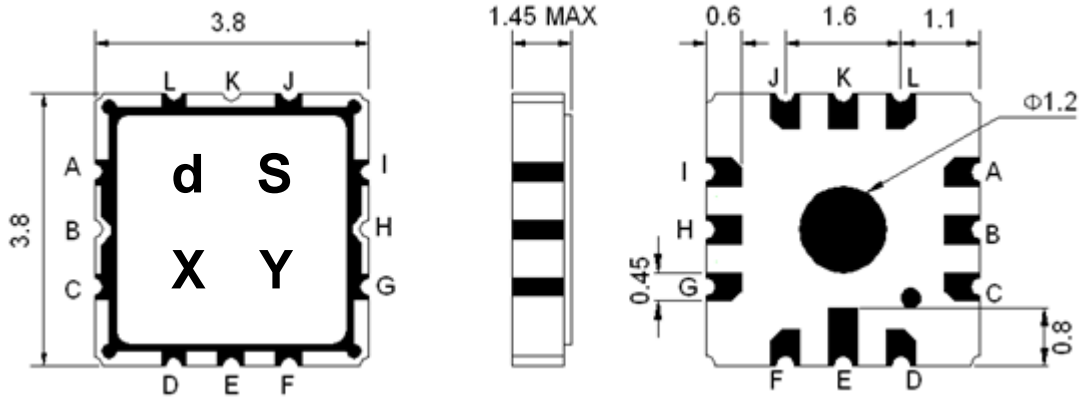
Electrical Characteristics

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	dBm	30dBm > 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	PB			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.45

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx (707.0MHz) → Ant		Specifications			
Insertion Loss	698.0 ~ 716.0	dB	-	1.4	3.0
Amplitude Ripple	698.0 ~ 716.0	dB _{p-p}	-	0.5	1.5
VSWR	698.0 ~ 716.0	-	-	1.5	2.2
Absolute Attenuation	722.0 ~ 729.0	dB	2	6	-
	729.0 ~ 790.0	dB	30	36	-
Ant → Rx (781.5MHz)		Specifications			
Insertion Loss	776.0 ~ 787.0	dB	-	1.6	3.0
Amplitude Imbalance	776.0 ~ 787.0	dB _{p-p}	-	0.6	1.5
VSWR	776.0 ~ 787.0	-	-	1.5	2.2
Absolute Attenuation	695.0 ~ 755.0	dB	30	36	-
	755.0 ~ 766.0	dB	2	28	-
Rx → Tx		Specifications			
Isolation	695.0 ~ 716.0	dB	30	40	-
	776.0 ~ 790.0	dB	30	37	-

Notes : (1) With Matching Network .

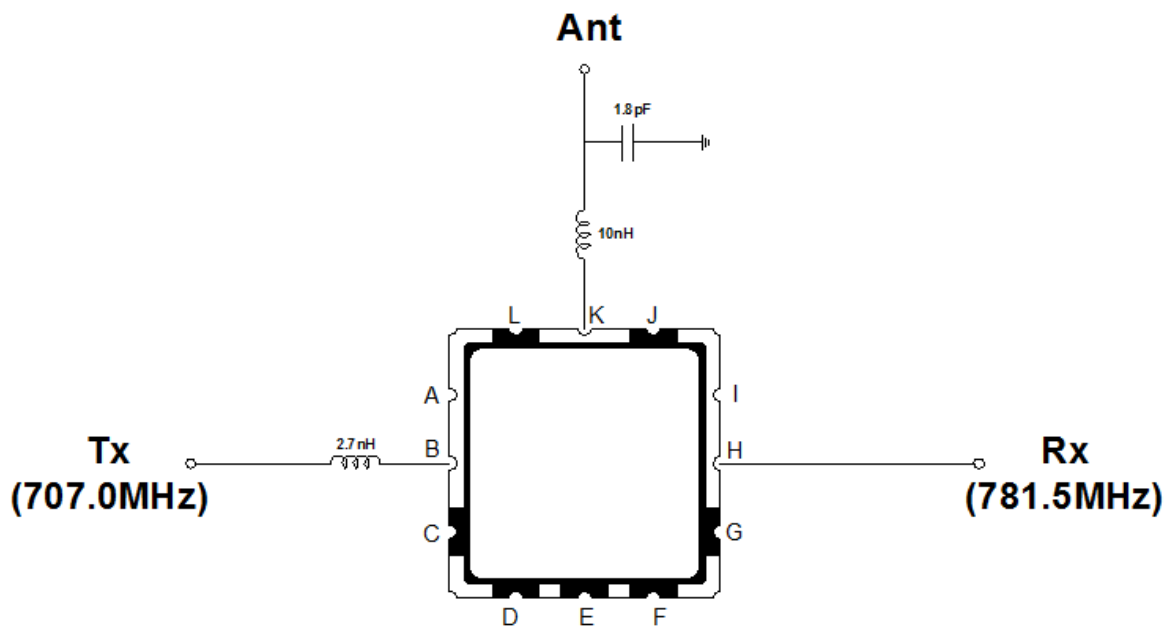
Package Dimensions



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

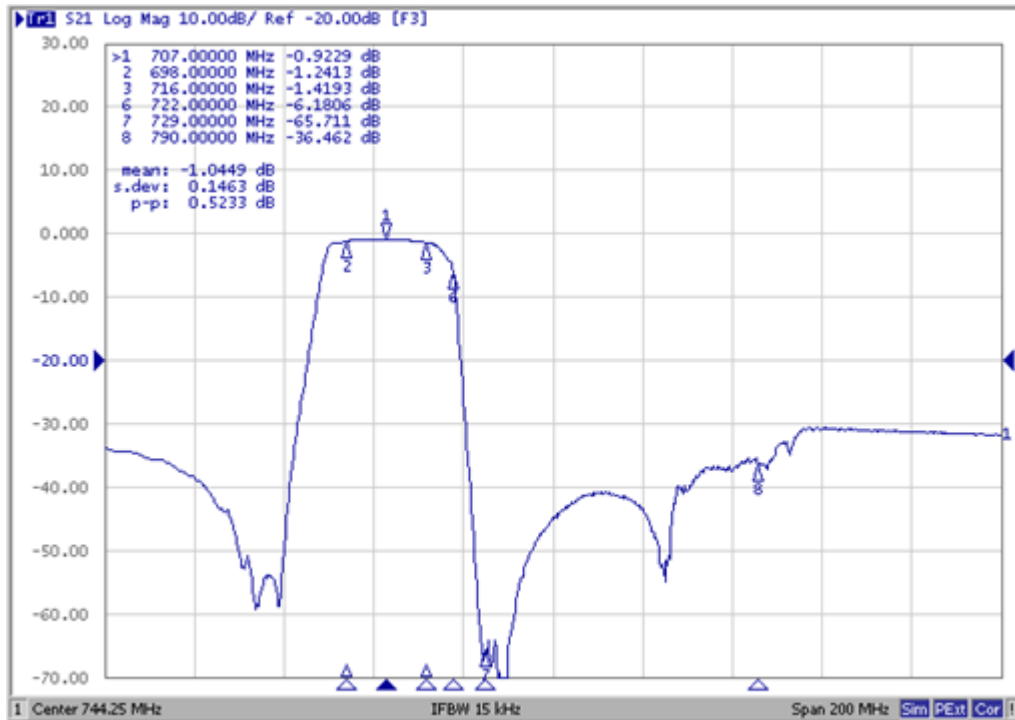
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Tx (707.0MHz)
H	Rx (781.5MHz)

Testing Environment

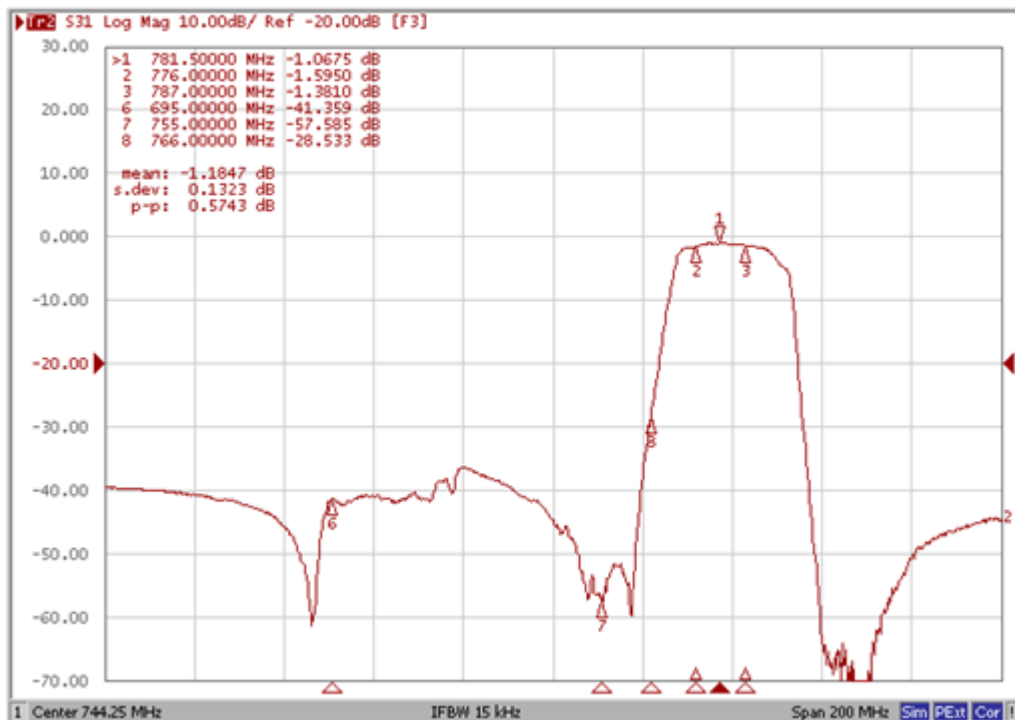


Frequency Characteristics

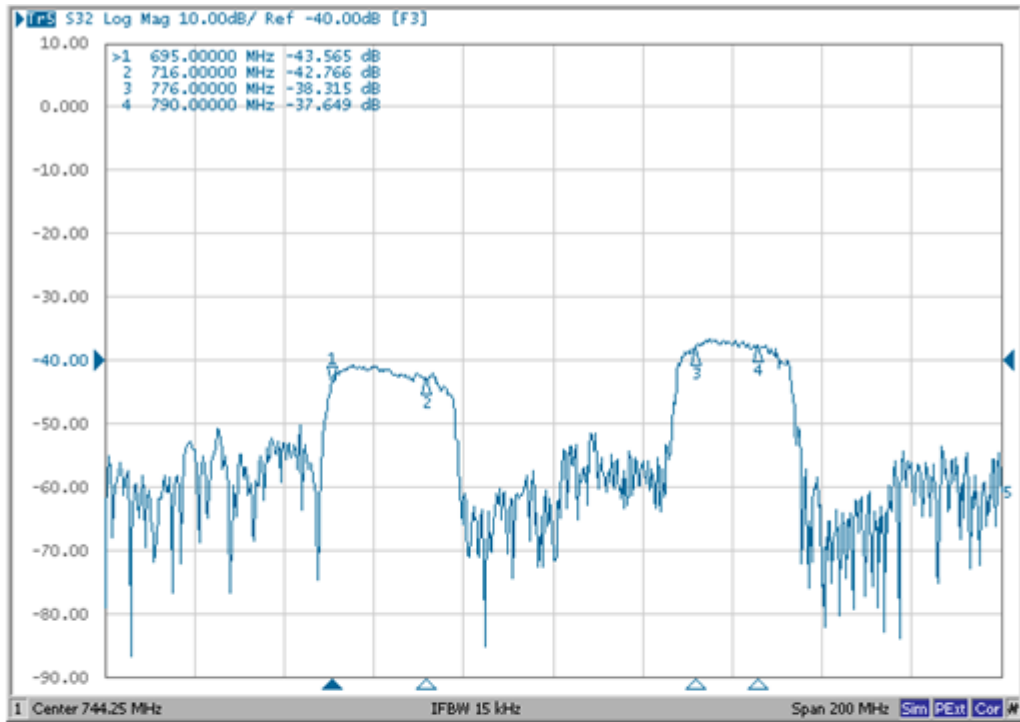
Tx to Ant



Ant to Rx

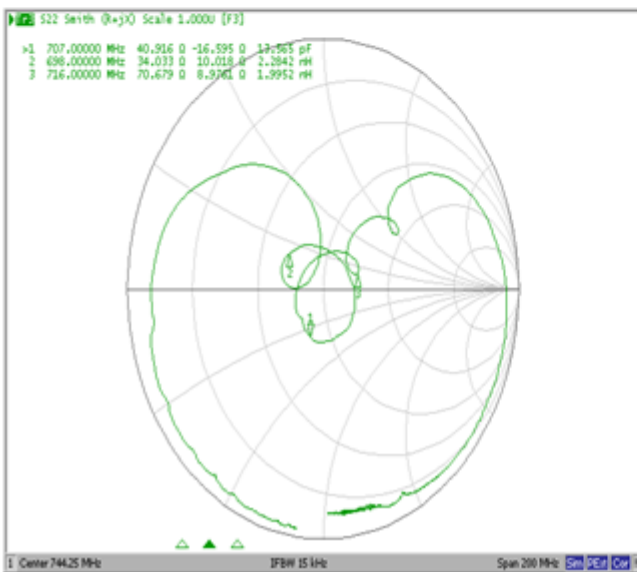


Isolation

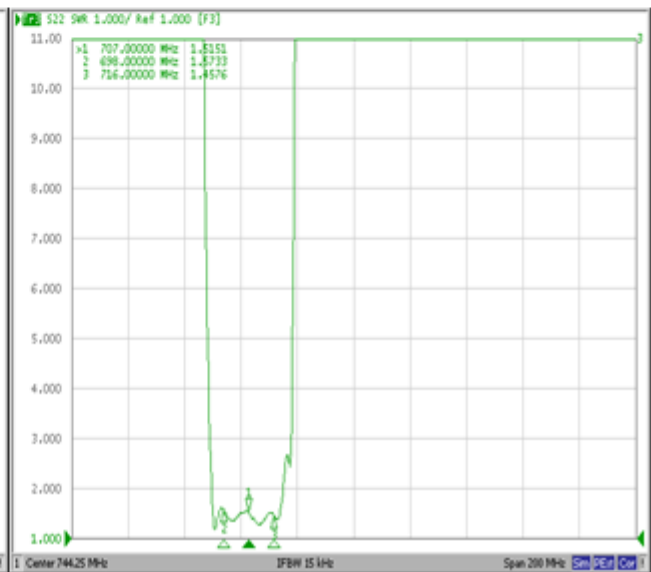


Tx Part

Smith Chart

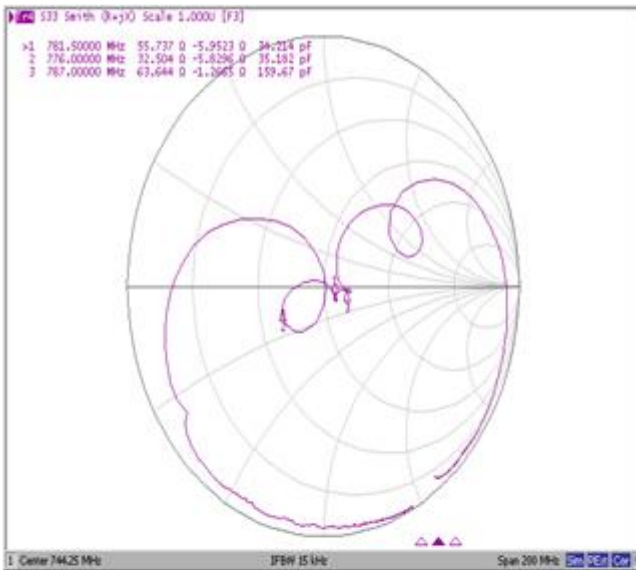


VSWR

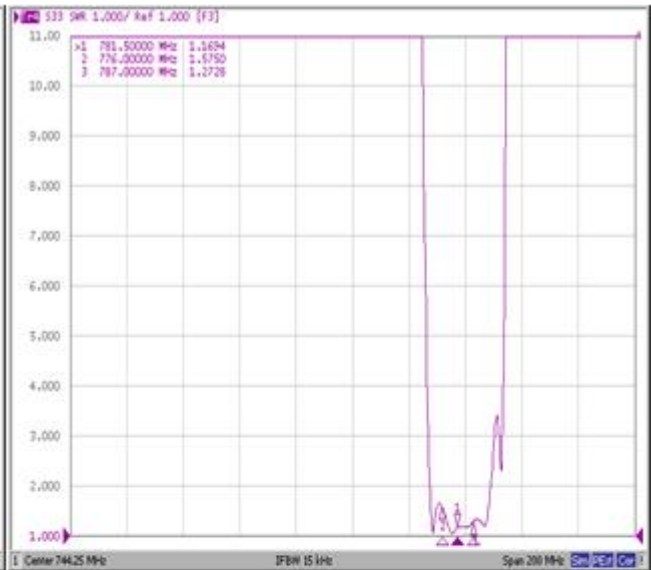


Rx Part

Smith Chart

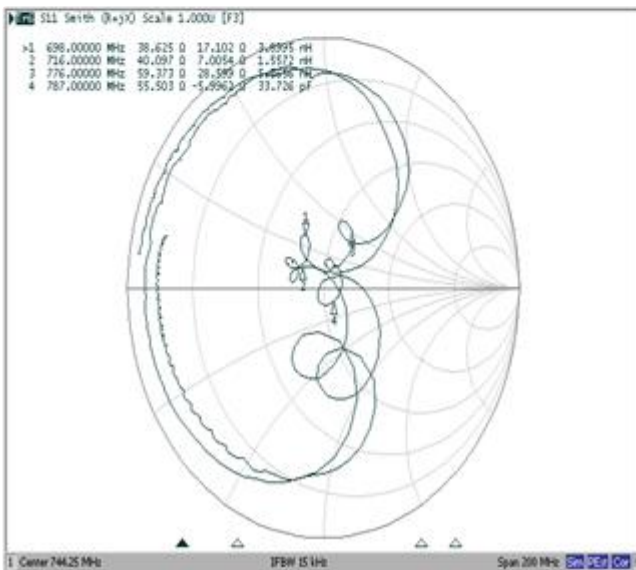


VSWR



Antenna

Smith Chart



VSWR

