

- SAW Duplexer For 710.0MHz / 745.0MHz
- Revision 0: November 2012

Electrical Characteristics

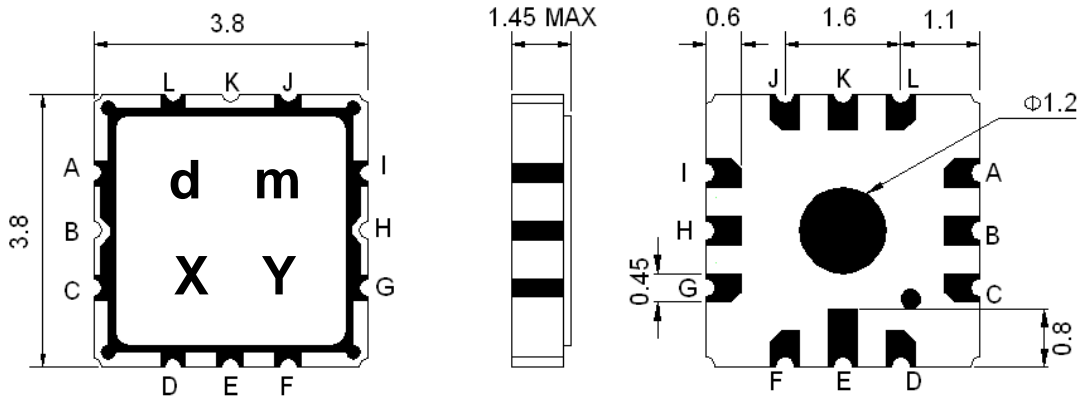
MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-10	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Maximum Input Power	dBm	30dBm > 50,000 Hours, CW tone(Ta= +50°C)		
Input Impedance (Antenna)	Ω	-	50	-
Output Tx Impedance	Ω	-	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 (710.0MHz) → Ant		Specifications			
Insertion Loss	704.0 ~ 716.0	dB	-	1.3	3.0
Amplitude Ripple	704.0 ~ 716.0	dB _{p-p}	-	0.5	1.5
VSWR	704.0 ~ 716.0	-	-	1.4	2.0
Absolute Attenuation	0.0 ~ 500.0	dB	30	38	-
	725.0 ~ 734.0	dB	5	11	-
	734.0 ~ 756.0	dB	40	47	-
	776.0 ~ 787.0	dB	30	40	-
	817.0 ~ 894.0	dB	30	40	-
	1400.0 ~ 2155.0	dB	20	26	-

Ant → Rx (745.0MHz)		Specifications			
Insertion Loss	734.0 ~ 756.0	dB	-	2.0	3.5
Amplitude Imbalance	734.0 ~ 756.0	dB _{p-p}	-	1.2	2.0
VSWR	734.0 ~ 756.0	-	-	1.6	2.2
Absolute Attenuation	0.0 ~ 698.0	dB	20	30	-
	698.0 ~ 716.0	dB	30	37	-
	716.0 ~ 725.0	dB	20	33	-
	766.5 ~ 776.0	dB	15	45	-
	776.0 ~ 787.0	dB	35	47	-
	817.0 ~ 894.0	dB	25	33	-
	1400.0 ~ 2155.0	dB	30	40	-
2184.0 ~ 2271.0	dB	20	30	-	
Rx → Tx		Specifications			
Isolation	704.0 ~ 716.0	dB	30	36	-
	716.0 ~ 734.0	dB	25	34	-
	734.0 ~ 756.0	dB	40	50	-
	756.0 ~ 776.0	dB	40	49	-
	776.0 ~ 787.0	dB	40	55	-

Notes : (1) With Matching Network .

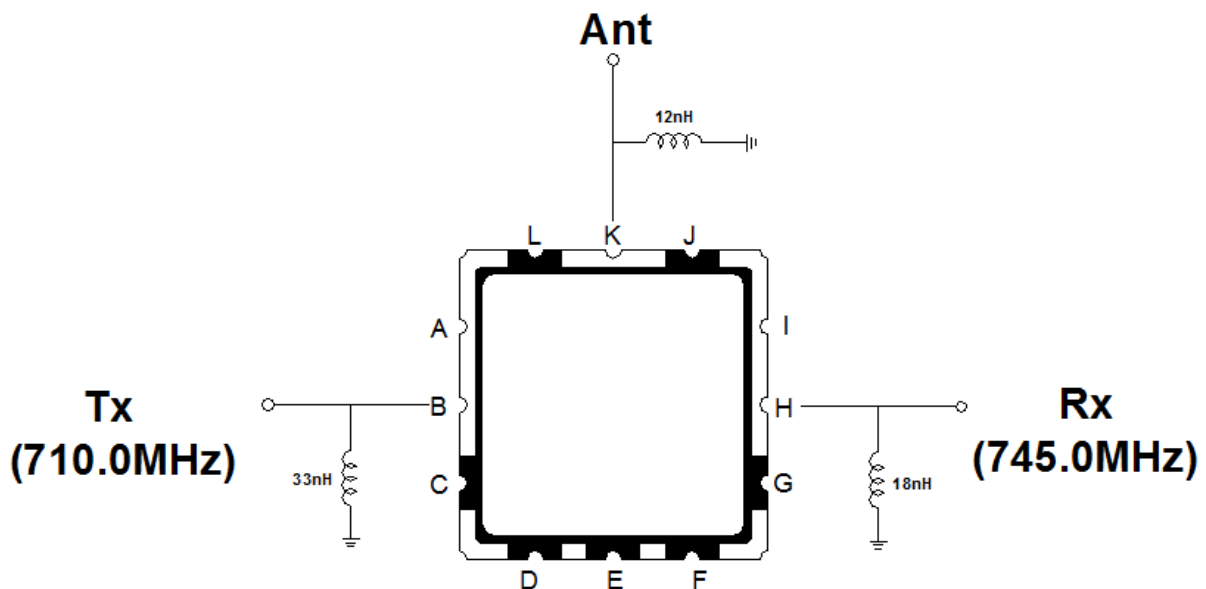
Package Dimensions



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

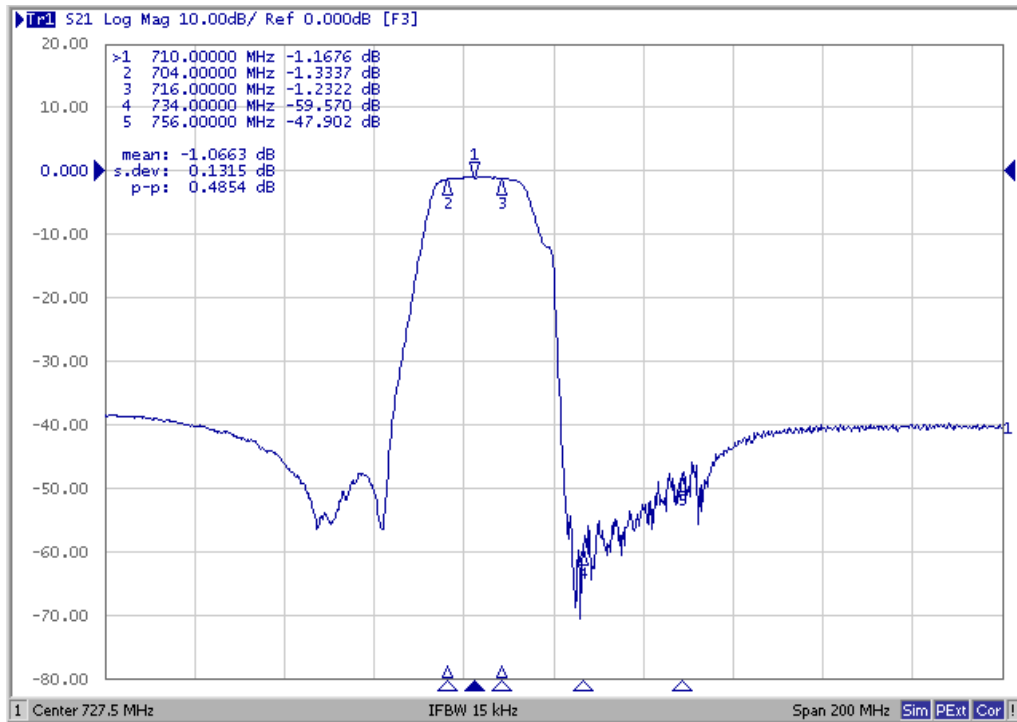
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Tx (710.0 MHz)
H	Rx (745.0MHz)

Testing Environment

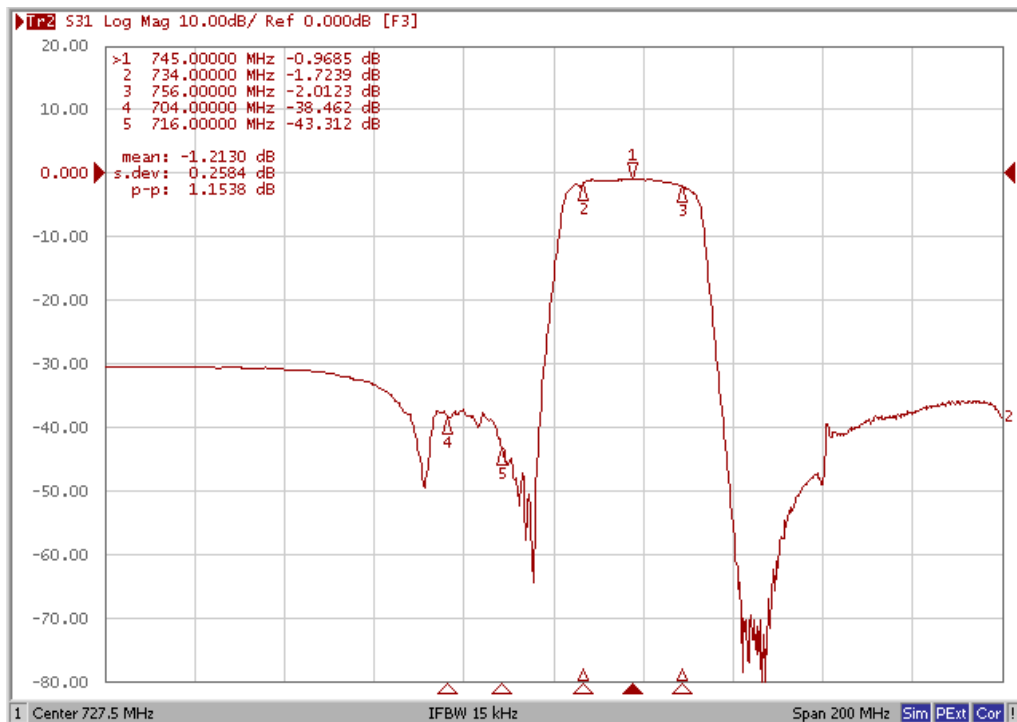


Frequency Characteristics

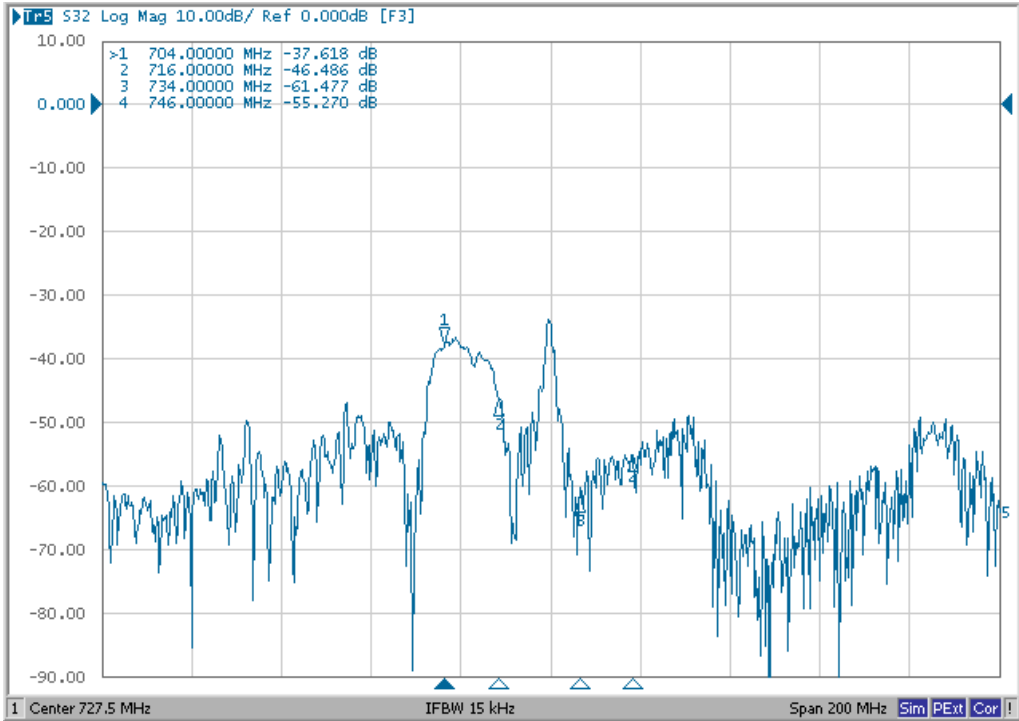
Tx to Ant



Tx to Ant

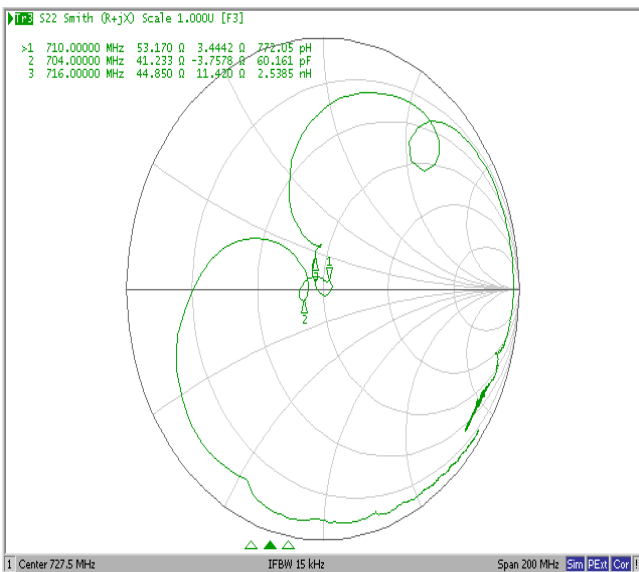


Isolation

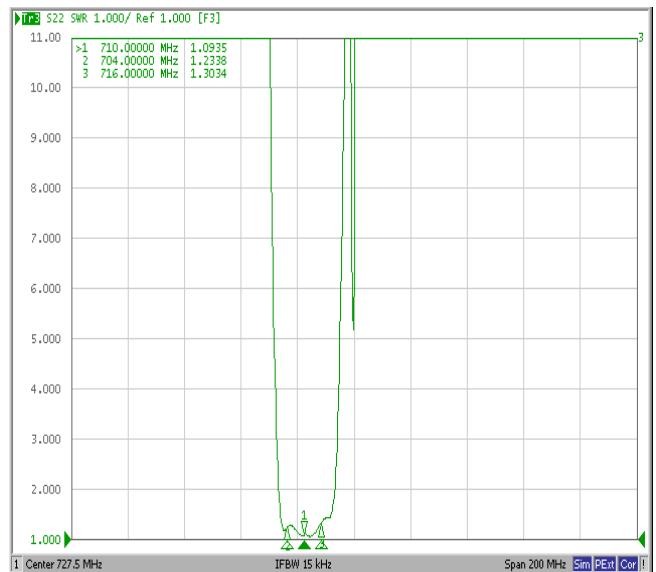


Tx Part

Smith Chart

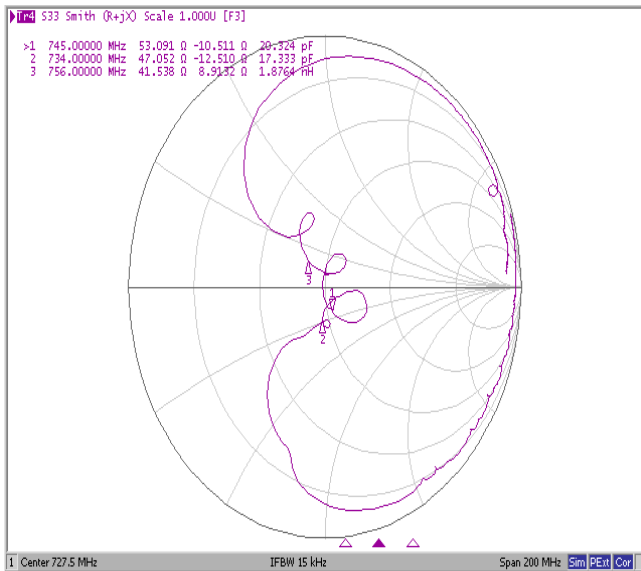


VSWR

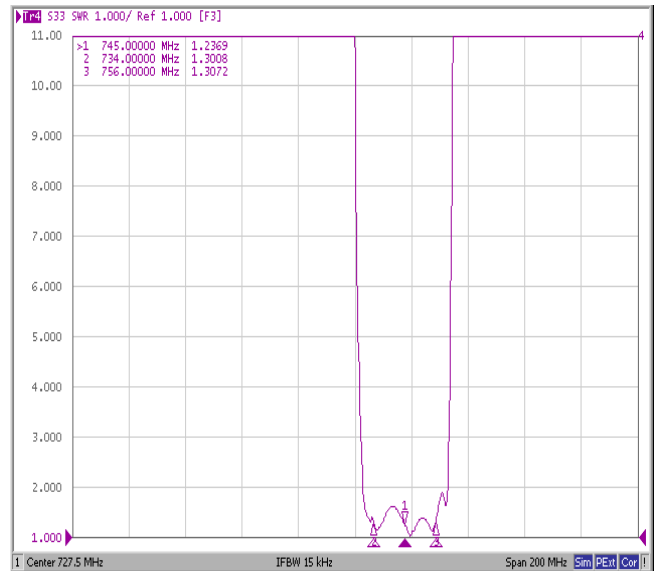


Rx Part

Smith Chart

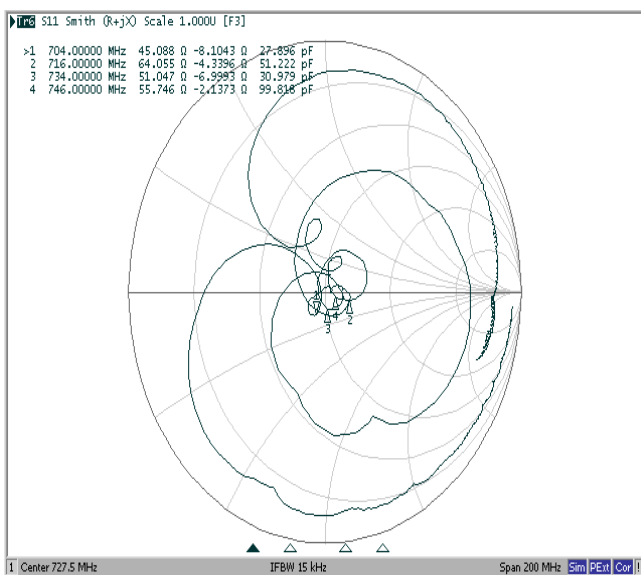


VSWR

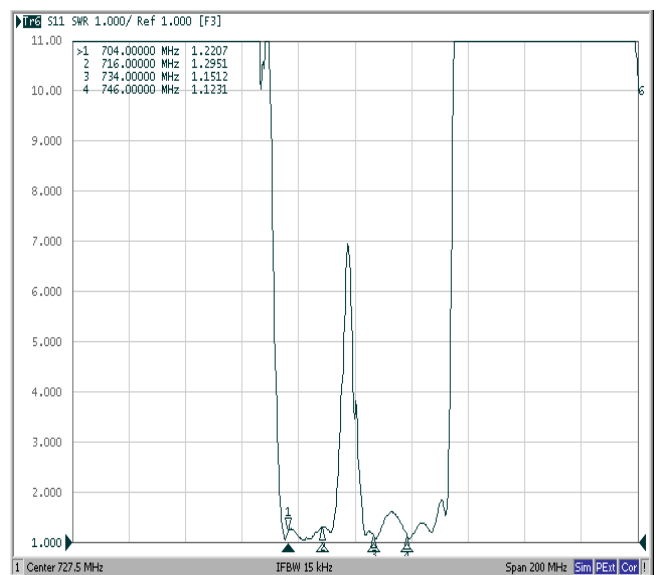


Antenna

Smith Chart



VSWR



Wide Span

