

- SAW DUPLEXER For 710.0MHz / 740.0MHz
- Revision 0: May 2013

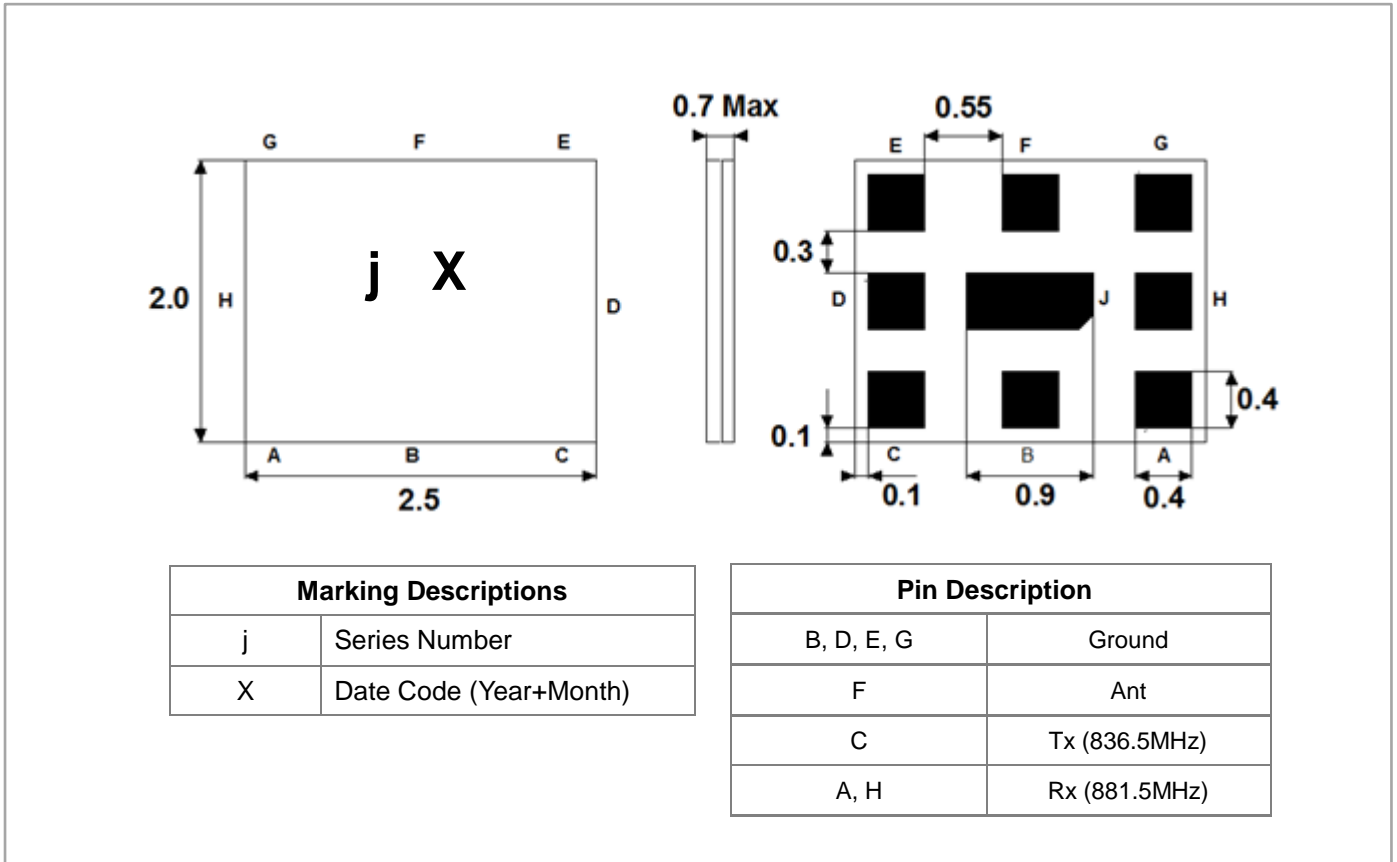
## Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	+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 Balanced Impedance	Ω	100		
Package type & size	C53			
Length x Width	mm <sup>2</sup>	-	2.5 x 2.0	-
Height	mm	-	-	0.7

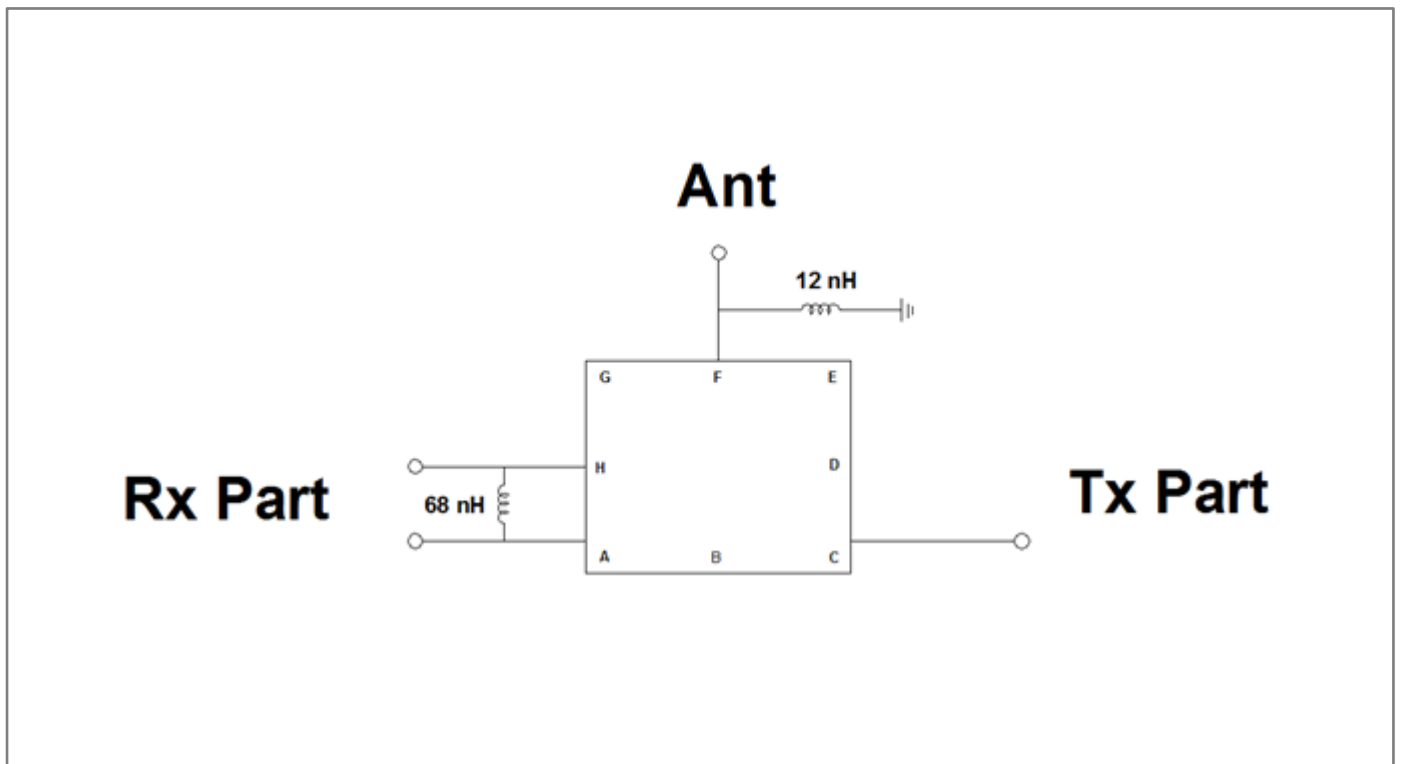
ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHz]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx (710.0MHz) → Ant		Specifications			
Insertion Loss	704.0 ~ 716.0	dB	-	1.3	3.0
Amplitude Ripple	704.0 ~ 716.0	dB <sub>p-p</sub>	-	0.5	1.5
VSWR	704.0 ~ 716.0	-	-	1.4	2.0
Absolute Attenuation	734.0 ~ 756.0	dB	40	47	-
Ant → Rx (745.0MHz)		Specifications			
Insertion Loss	734.0 ~ 756.0	dB	-	2.0	3.5
Amplitude Ripple	734.0 ~ 756.0	dB <sub>p-p</sub>	-	1.2	2.0
VSWR	734.0 ~ 756.0	-	-	1.6	2.2
Absolute Attenuation	704.0 ~ 716.0	dB	20	30	-
Rx → Tx		Specifications			
Isolation	704.0 ~ 716.0	dB	30	36	-
	734.0 ~ 756.0	dB	40	50	-

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

## Package Dimensions

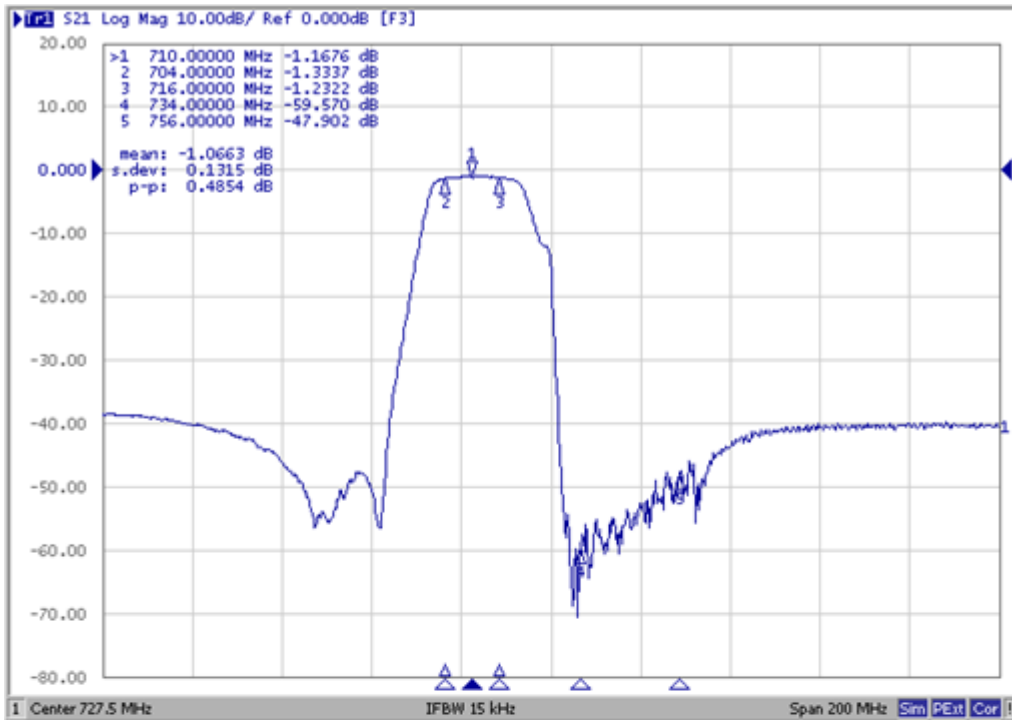


## Testing Environment

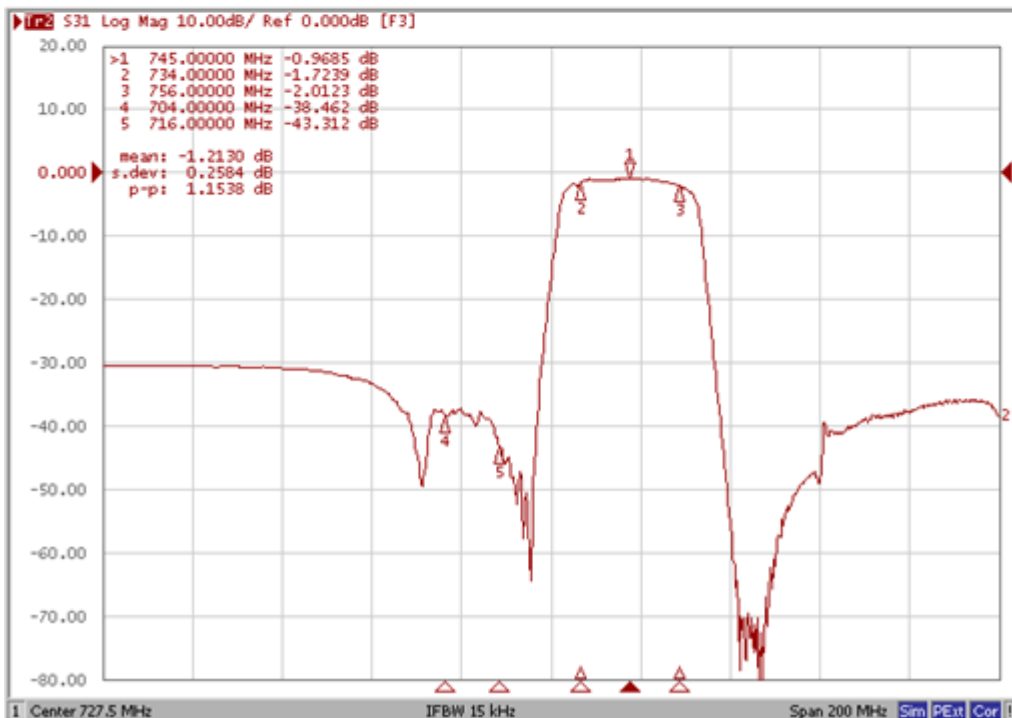


## Frequency Characteristics

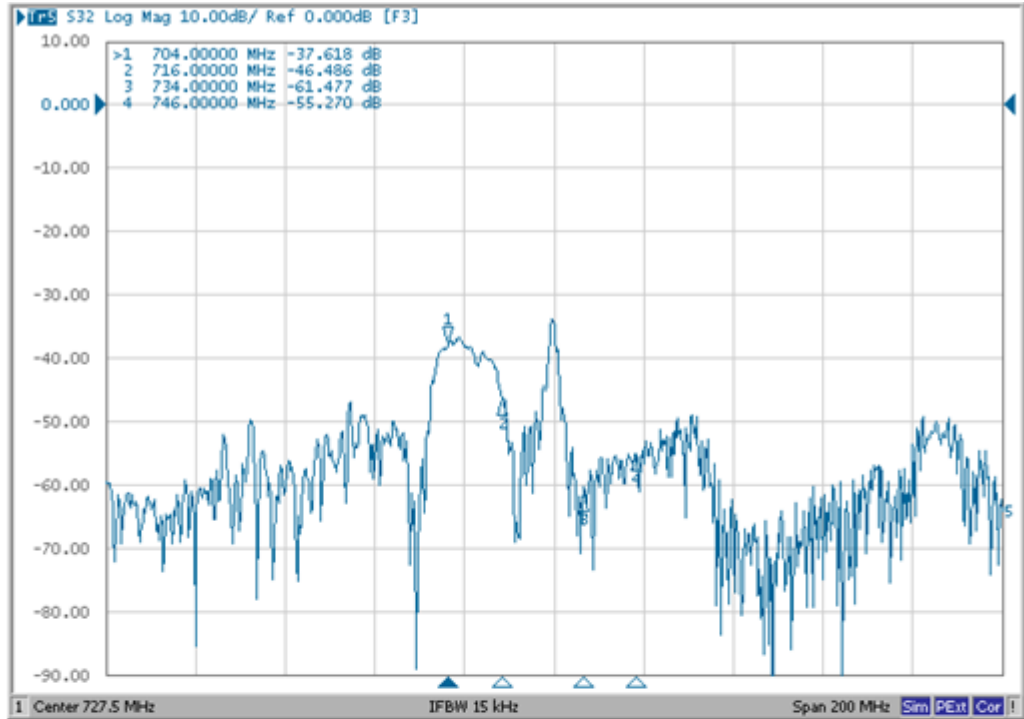
**Tx to Ant**



**Ant to Rx**

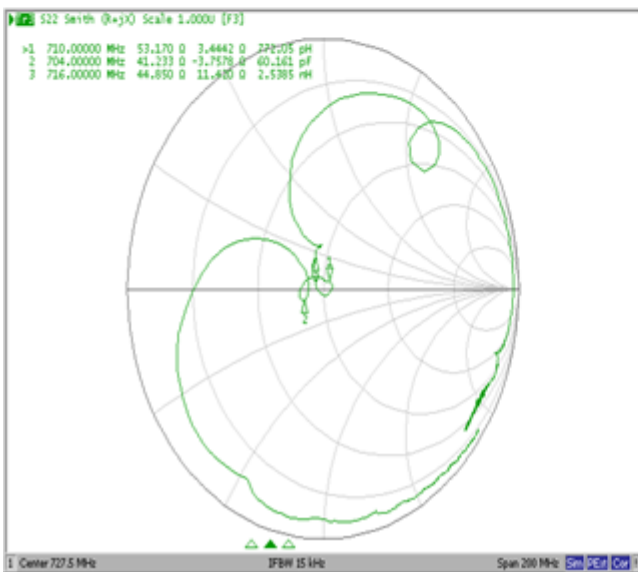


**Isolation**

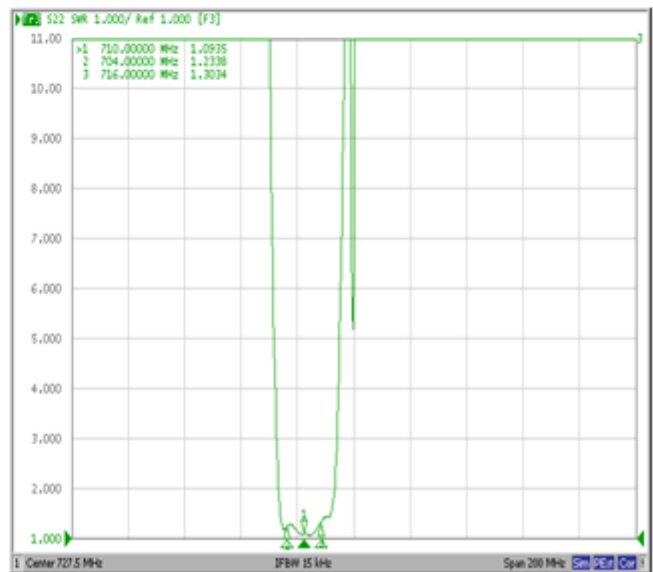


**Tx Part**

**Smith Chart**

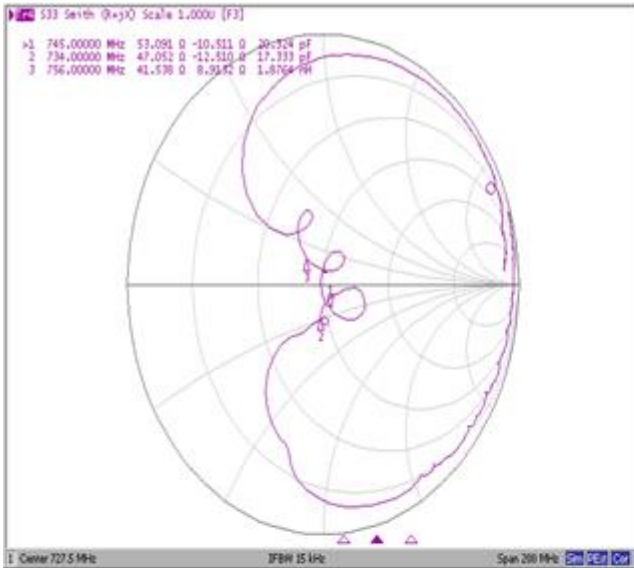


**VSWR**

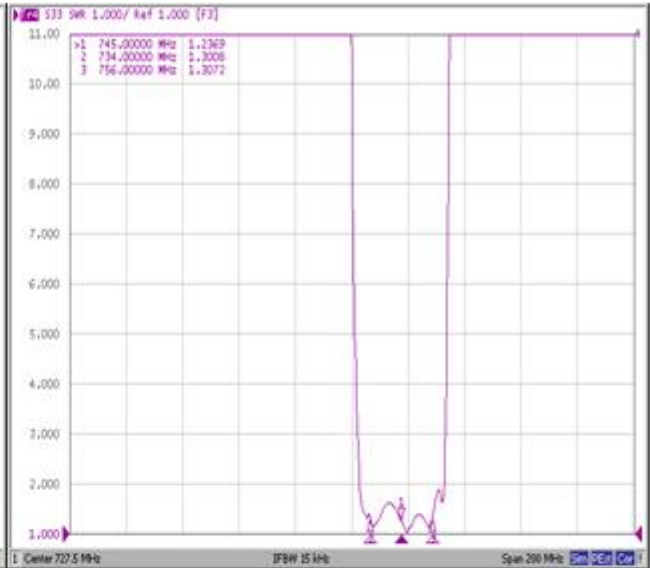


**Rx Part**

**Smith Chart**

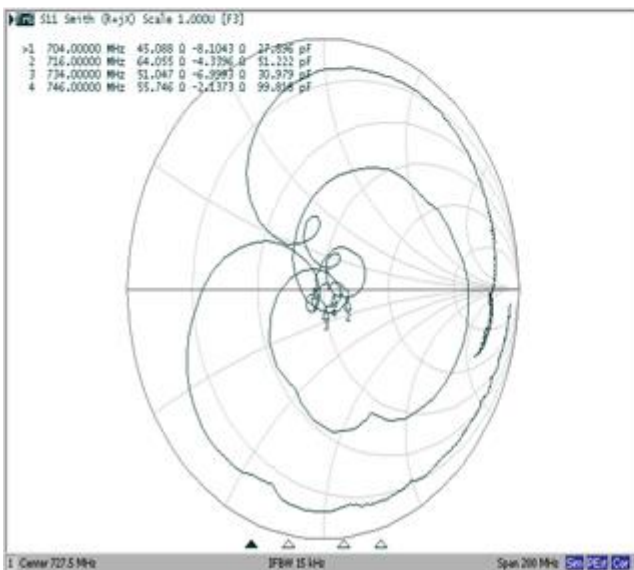


**VSWR**

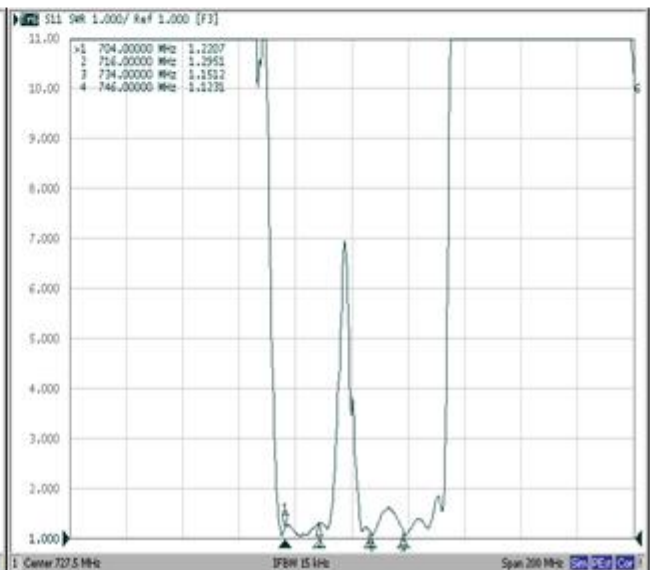


**Antenna**

**Smith Chart**



**VSWR**



**Wide Span**

