

- CDMA450 Rx Balanced SAW Duplexer For 452.5 MHz / 462.5 MHz
- Revision 0: August 2011

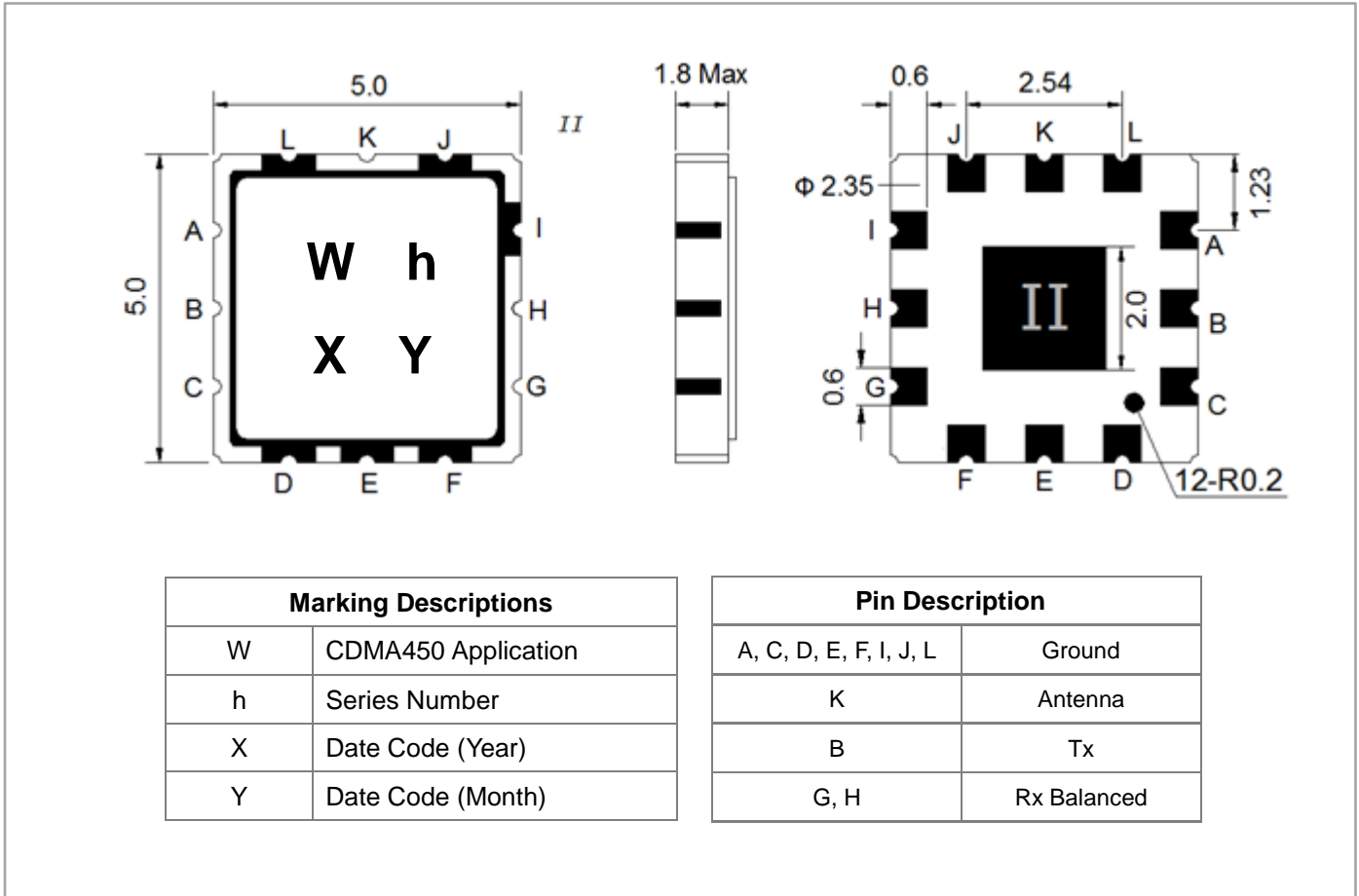
## Electrical Characteristics

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	-
Input Power Level	dBm	29dBm > 50000 Hours, CW tone (Ta = +55°C)		
Antenna & Tx Impedance (single ended)	Ω	-	50	-
Rx Impedance (balanced) <sup>(1)</sup>	Ω	-	100	-
Package type & size	K6			
Length x Width	mm <sup>2</sup>	-	5.0 x 5.0	-
Height	mm	-	1.8	-

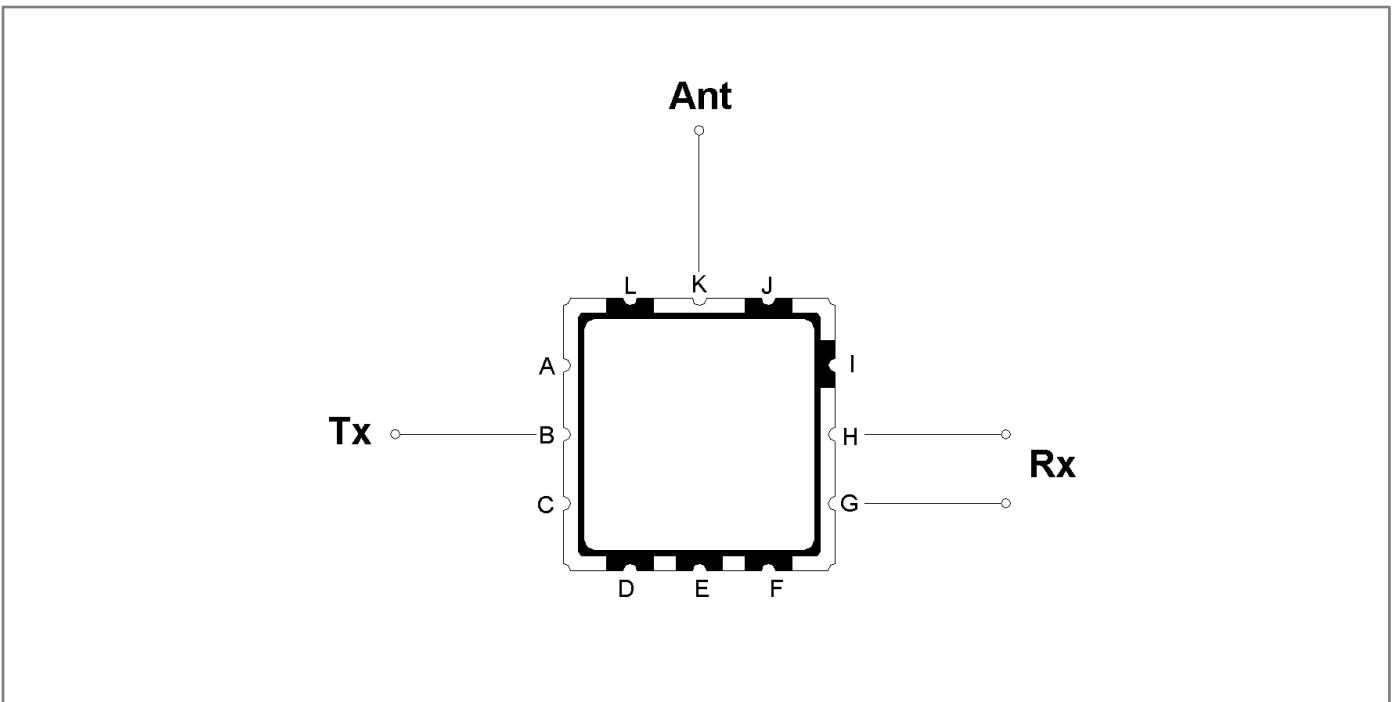
ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
<b>Tx → Ant</b>		<b>Specifications</b>			
Insertion Loss	450.0 ~ 455.0	dB	-	2.0	3.2
VSWR	450.0 ~ 455.0	-	-	1.7	2.1
Absolute Attenuation	D.C ~ 440.0	dB	25	31	-
	460.0 ~ 465.0	dB	40	52	-
	465.0 ~ 1700.0	dB	15	22	-
	1700.0 ~ 2000.0	dB	10	20	-
<b>Ant → Rx</b>		<b>Specifications</b>			
Insertion Loss	460.0 ~ 465.0	dB	-	3.2	4.0
Amplitude Imbalance	460.0 ~ 465.0	dB	-1.0	-0.3/0.35	1.0
Phase Imbalance	460.0 ~ 465.0	deg	-10	4.5/7.0	10
VSWR	460.0 ~ 465.0	-	-	1.6	2.2
Absolute Attenuation	D.C ~ 450.0	dB	40	50	-
	450.0 ~ 455.0	dB	45	50	-
	485.0 ~ 505.0	dB	35	40	-
	505.0 ~ 1200.0	dB	25	38	-
	1200.0 ~ 2000.0	dB	15	28	-
<b>Tx → Rx</b>		<b>Specifications</b>			
Isolation	450.0 ~ 455.0	dB	52	60	-
	460.0 ~ 465.0	dB	52	70	-

**Notes :** (1) No Matching Network .

## Package Dimensions

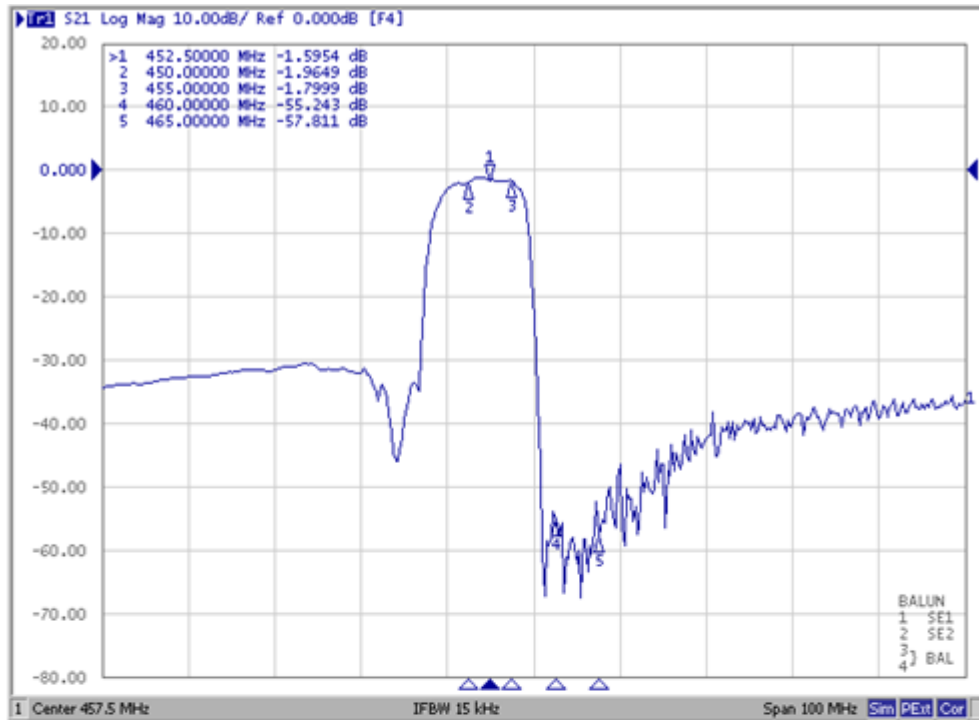


## Testing Environment

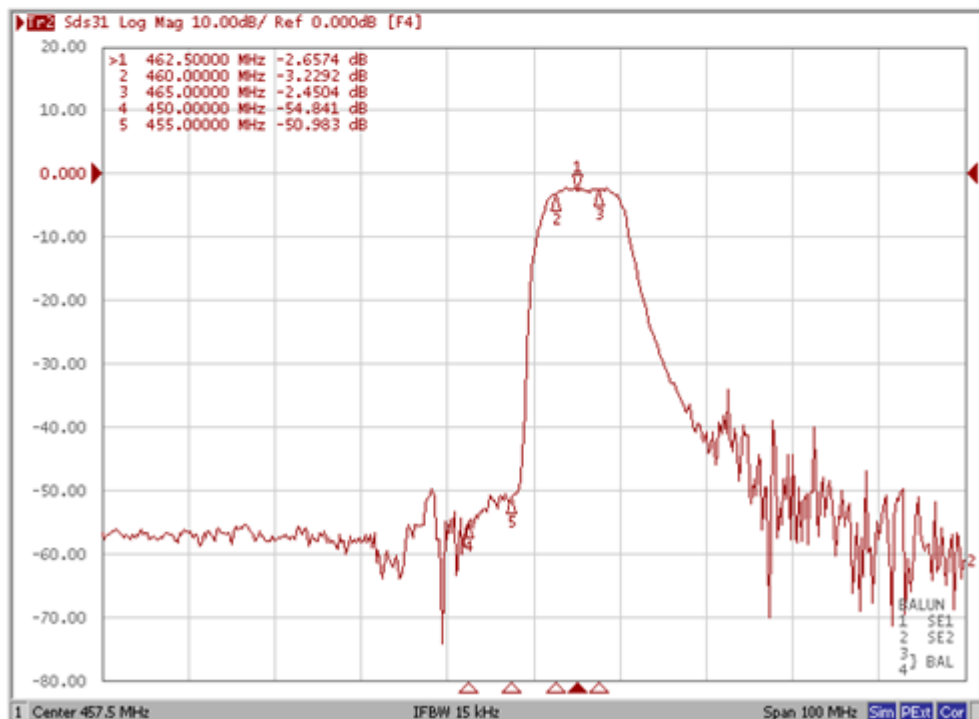


## Frequency Characteristics

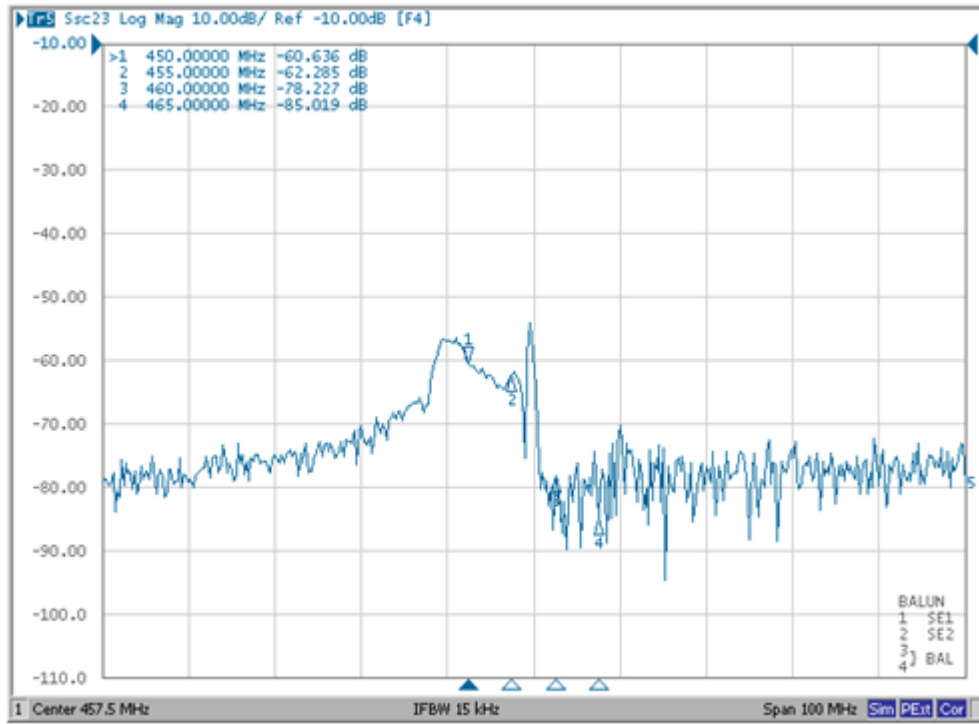
**Tx to Ant**



**Ant to Rx**

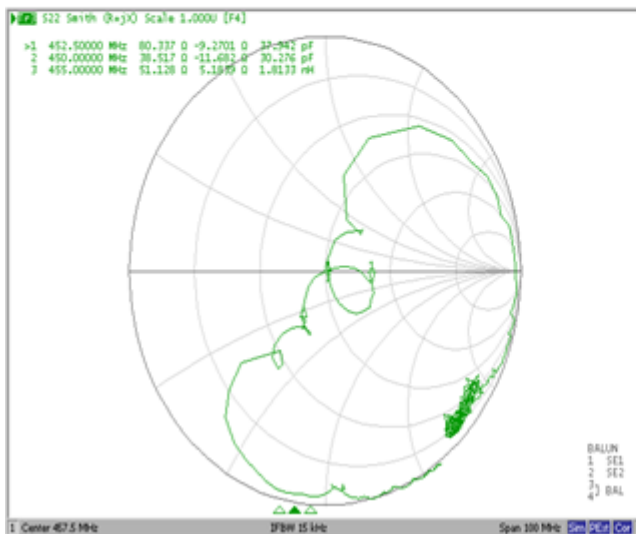


**Isolation**

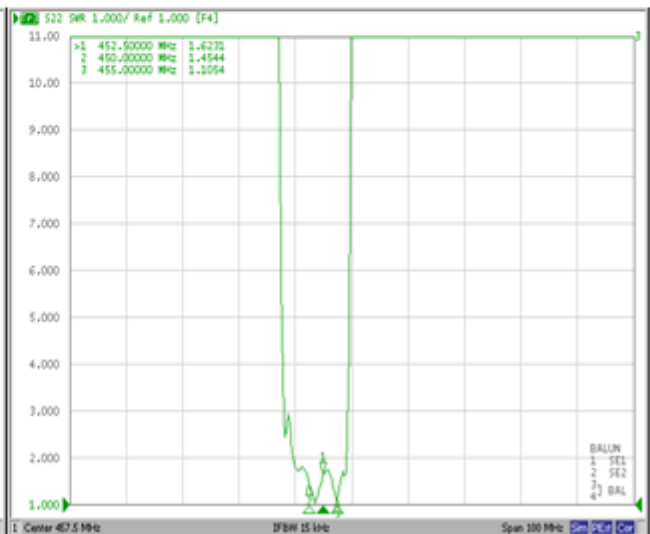


**Tx Port**

**Smith Chart**

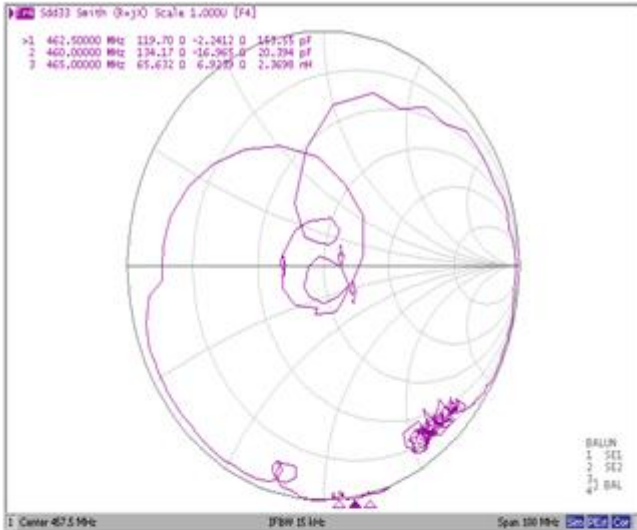


**VSWR**

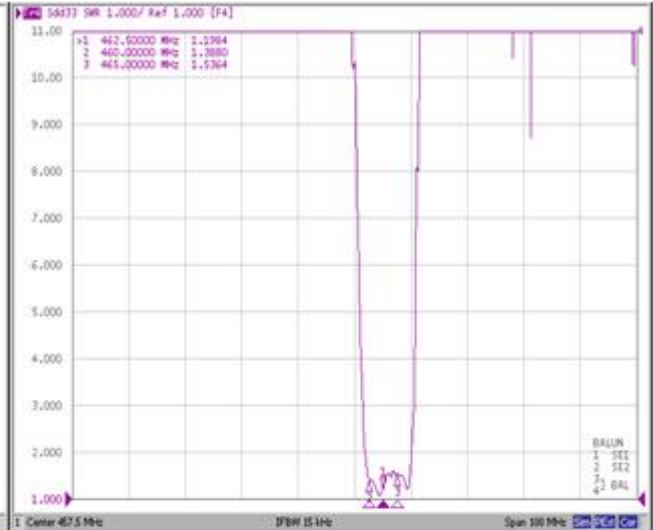


**Rx Port**

**Smith Chart**

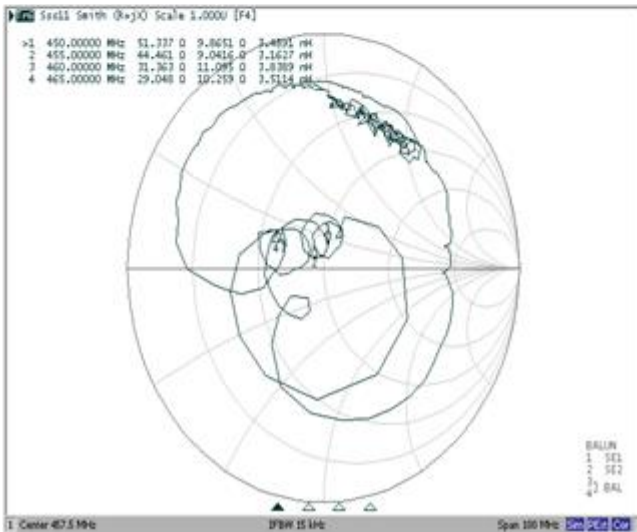


**VSWR**

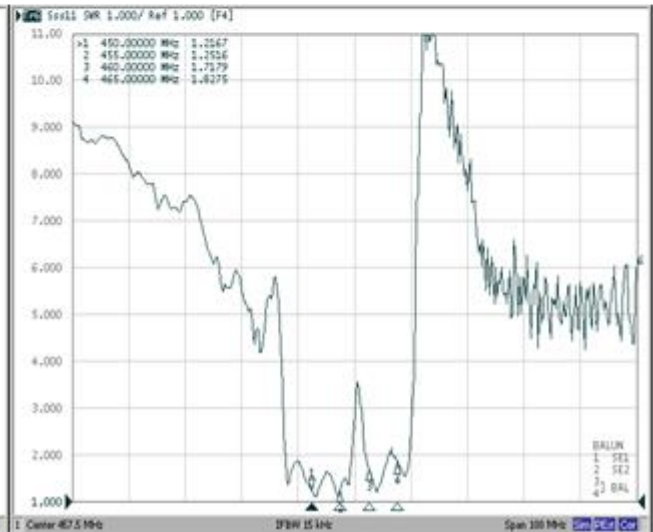


**Ant Port**

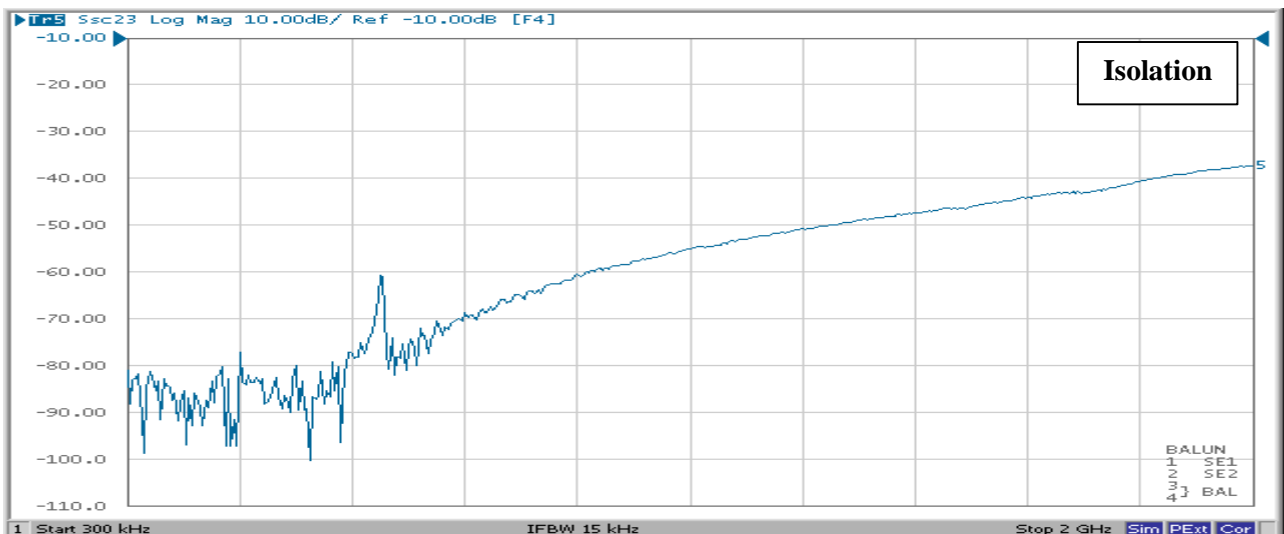
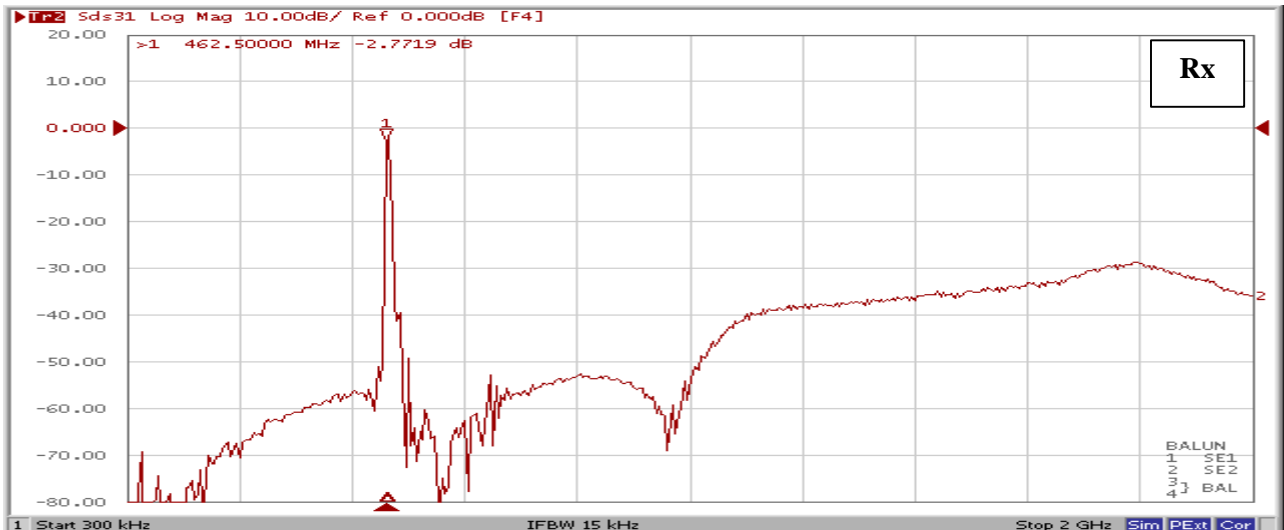
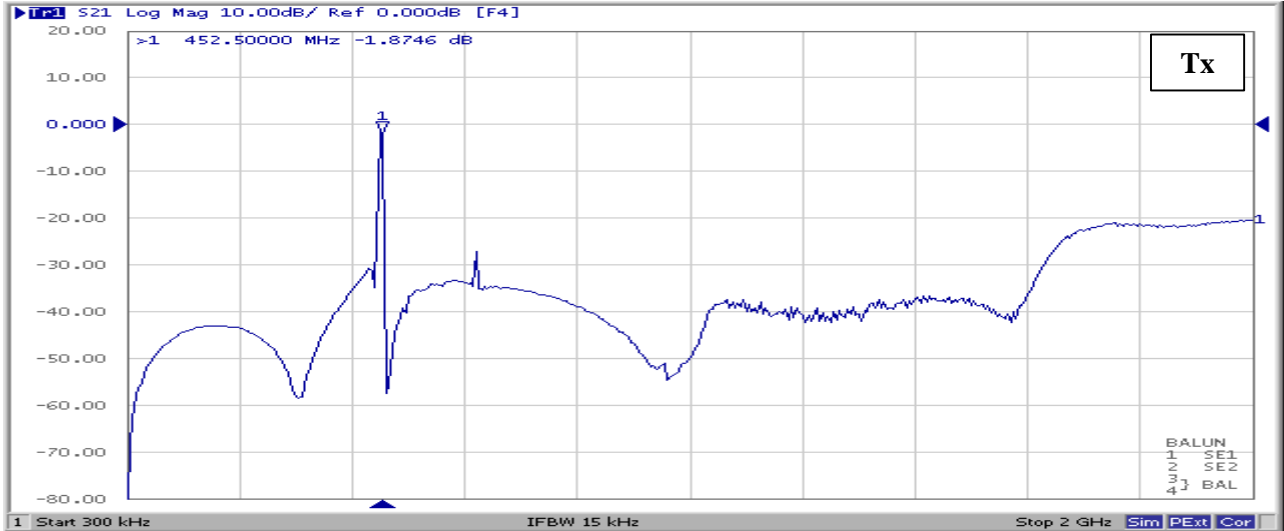
**Smith Chart**



**VSWR**



**Wide Span**



## Amplitude Imbalance



## Phase Imbalance

