

SAW Duplexer 1732.50 / 2132.50MHz
Part No: MP05792

Model: TF0087A
Rev. No: 2

A. MAXIMUM RATING:

1. Maximum Input Power: 29dBm
2. DC voltage: 0V
3. Operating Temperature: -20°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating impedance (Tx Port): 50Ω (Single-ended)
2. Terminating impedance (Rx Port): 100Ω // 18nH (Balanced-ended)
3. Terminating impedance (Ant Port): 50Ω // 3.3nH (Single-ended)

Tx to ANT

Parameters Description		Unit	Min.	Typ.	Max.
Insertion Loss	1710 ~ 1755MHz	dB	-	1.8	2.0
Amplitude Ripple	1710 ~ 1755MHz	dB p-p	-	0.6	1.0
VSWR	ANT	-	-	1.6	2.0
	Tx	-	-	1.8	2.1
Attenuation:					
300 ~ 1574MHz		dB	30	40	-
1574 ~ 1577MHz		dB	45	49	-
1574 ~ 1605MHz		dB	38	45	-
1805 ~ 1880MHz		dB	41	49	-
1930 ~ 1990MHz		dB	42	46	-
2110 ~ 2155MHz		dB	50	54	-
2400 ~ 2500MHz		dB	35	41	-
3240 ~ 3540MHz		dB	21	30	-
5130 ~ 5265MHz		dB	12	24	-

Note: With Matching Network.

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ANT to Rx

Parameters Description		Unit	Min.	Typ.	Max.
Insertion Loss	2110 ~ 2155MHz	dB	-	1.8	2.0
Amplitude Ripple	2110 ~ 2155MHz	dB p-p	-	0.4	0.8
VSWR	ANT	-	-	1.4	2.0
	Rx			1.6	2.0
Attenuation:					
300~ 1710MHz		dB	40	47	-
1710 ~ 1755MHz		dB	48	51	-
1755 ~ 2025MHz		dB	30	41	-
2240 ~ 2400MHz		dB	25	30	-
2400 ~ 2484MHz		dB	35	41	-
2484 ~ 6000MHz		dB	35	43	-

Rx to Tx

Isolation	1710 ~ 1755MHz	dB	52	55	-
	2110 ~ 2155MHz	dB	47	50	-

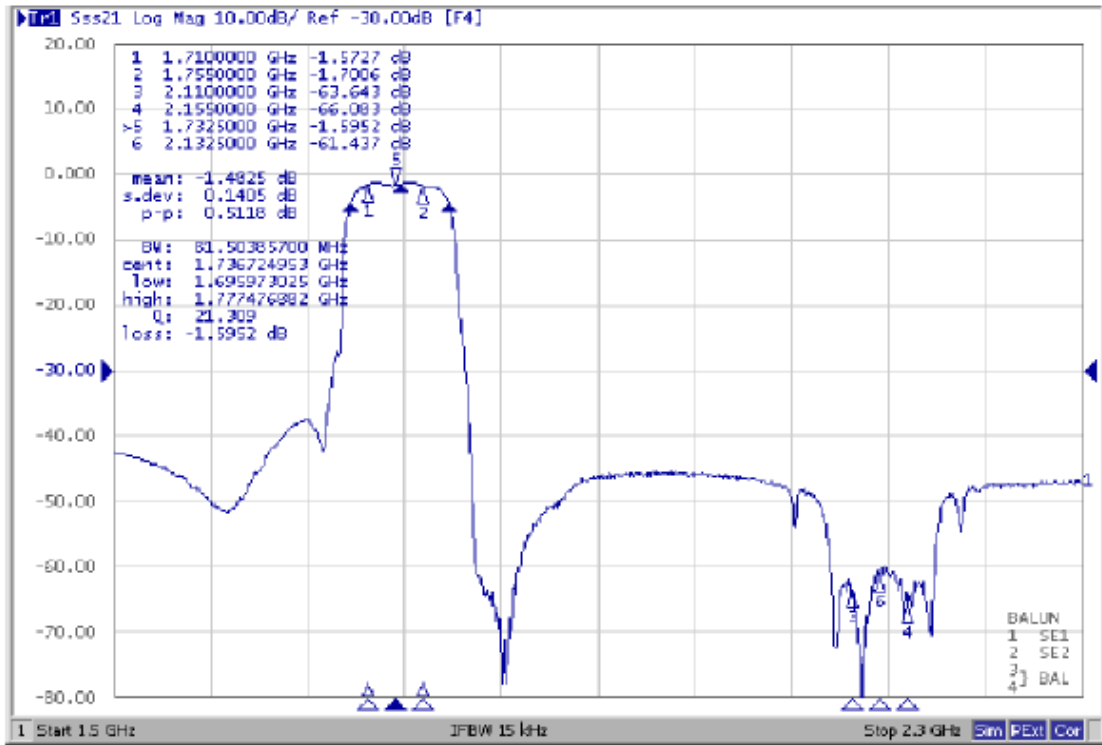
Note: With Matching Network.

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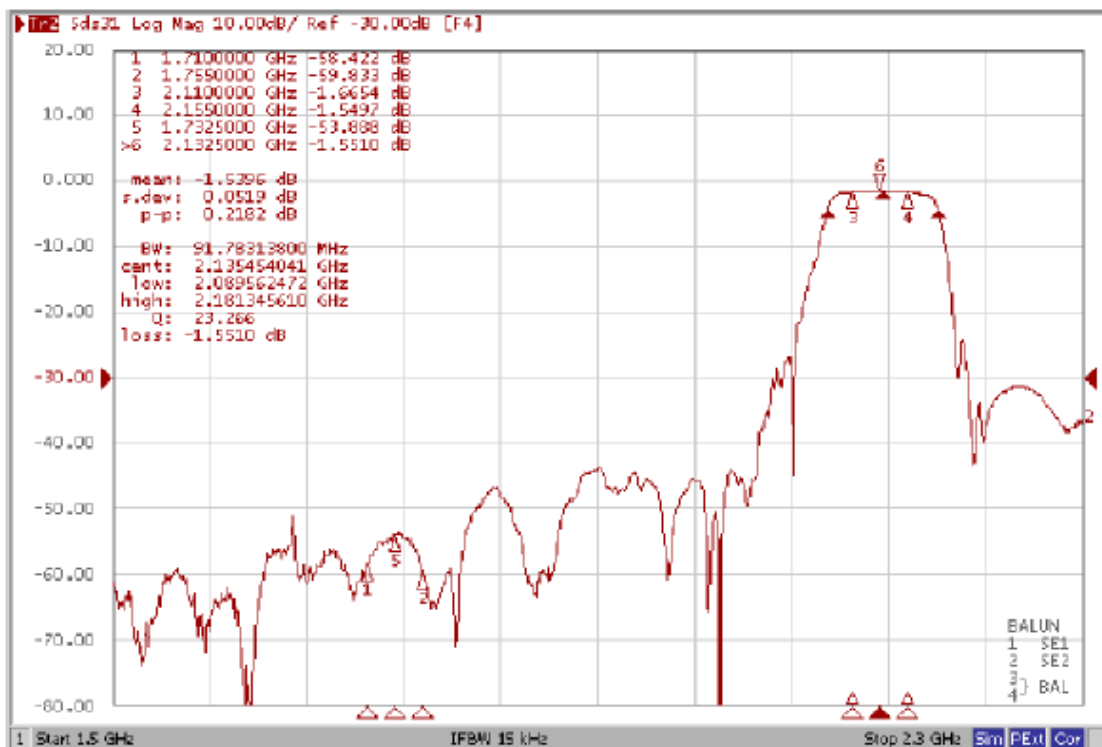
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C. FREQUENCY CHARACTERISTICS:

1. Tx to Ant



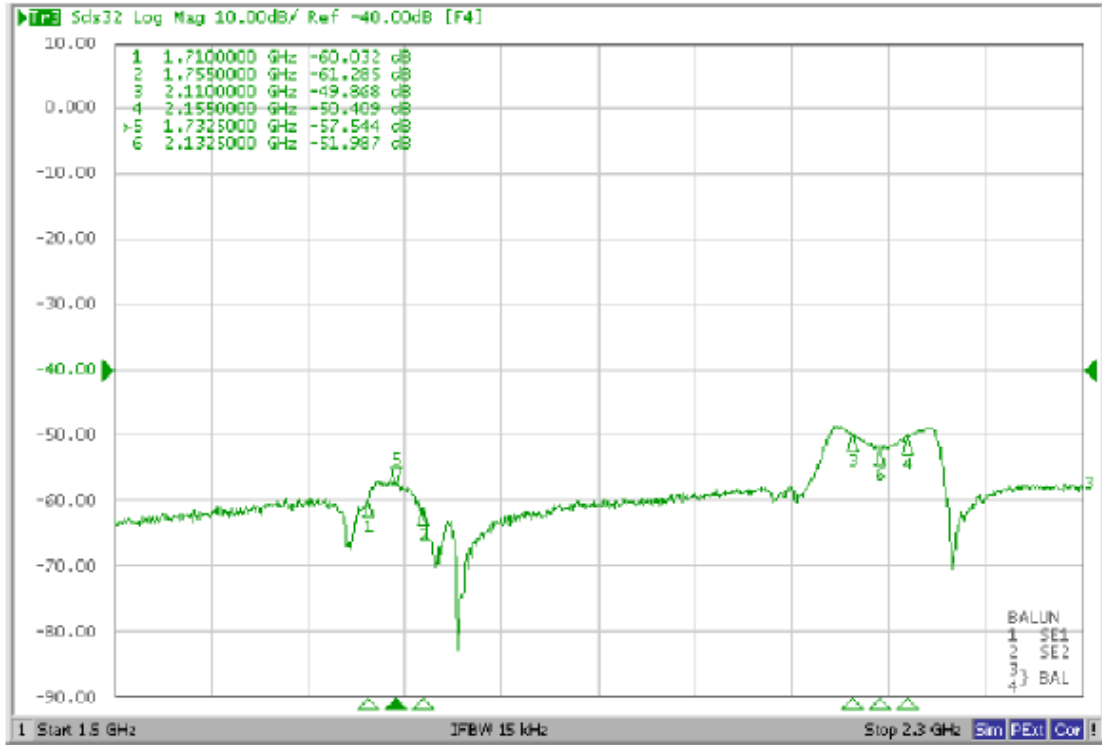
2. Ant to Rx



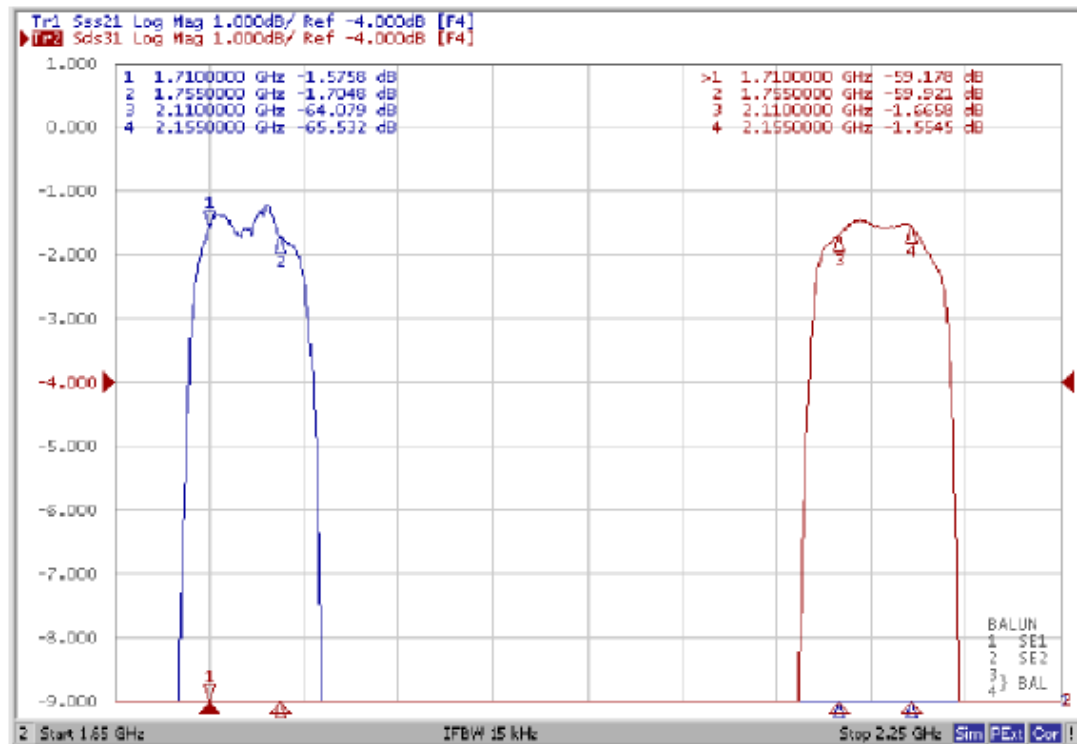
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3. Isolation



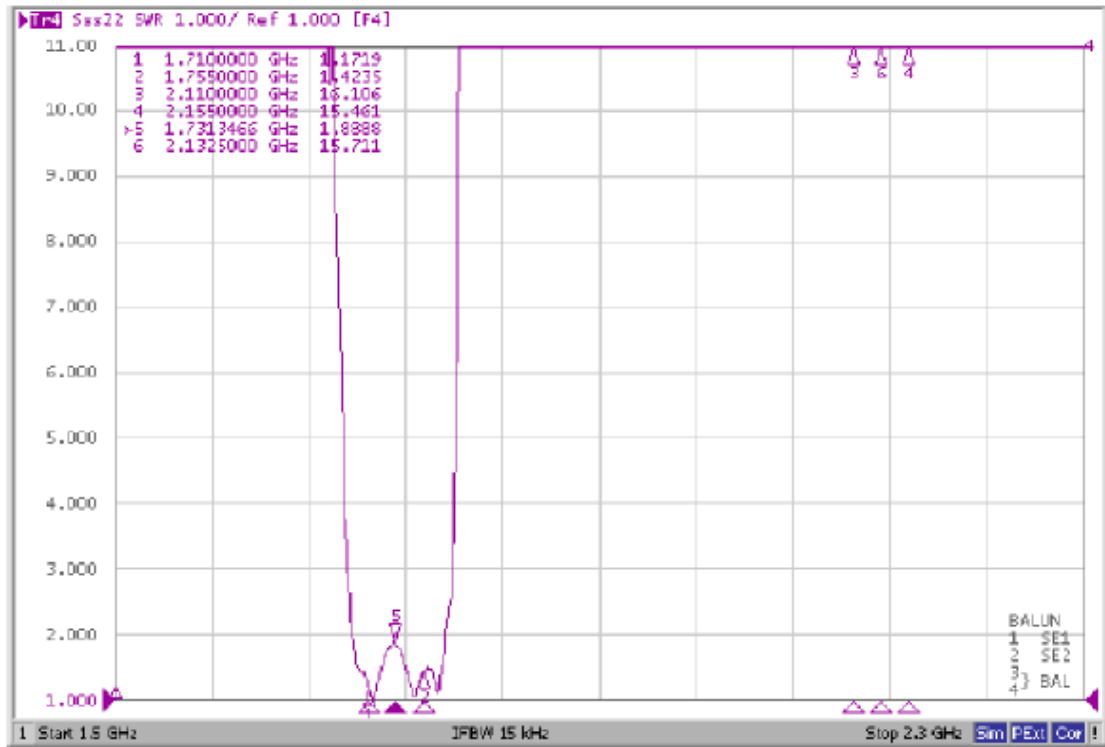
4. Ripple



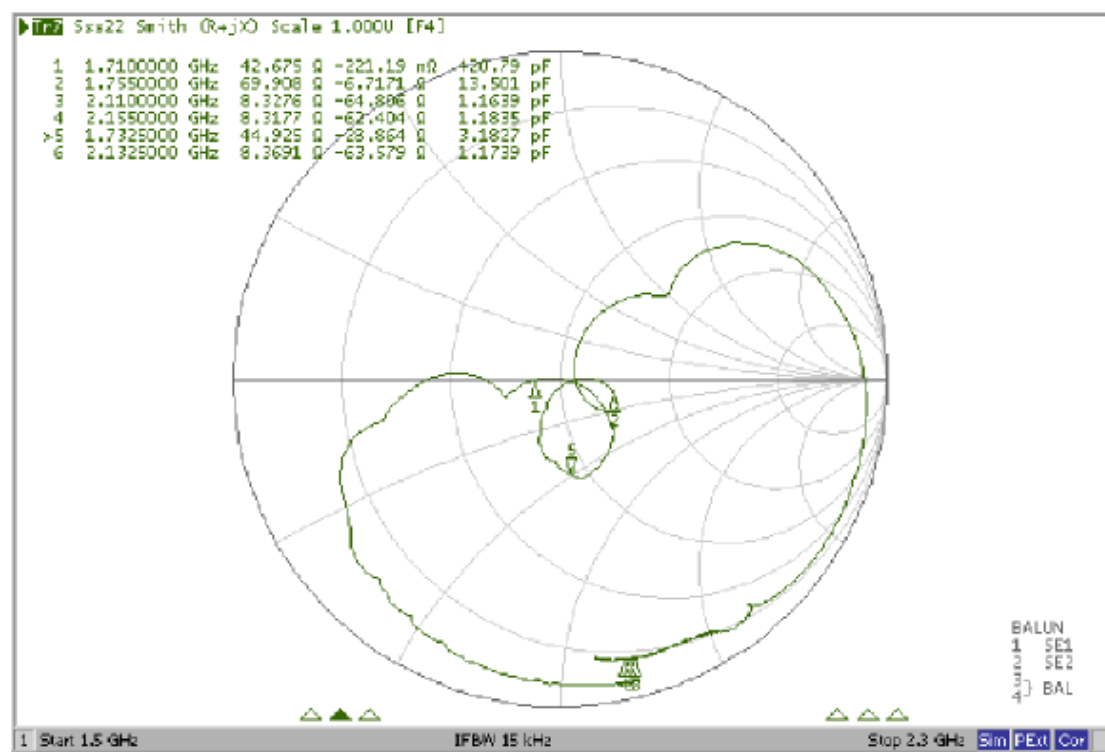
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5. VSWR (Tx Port)



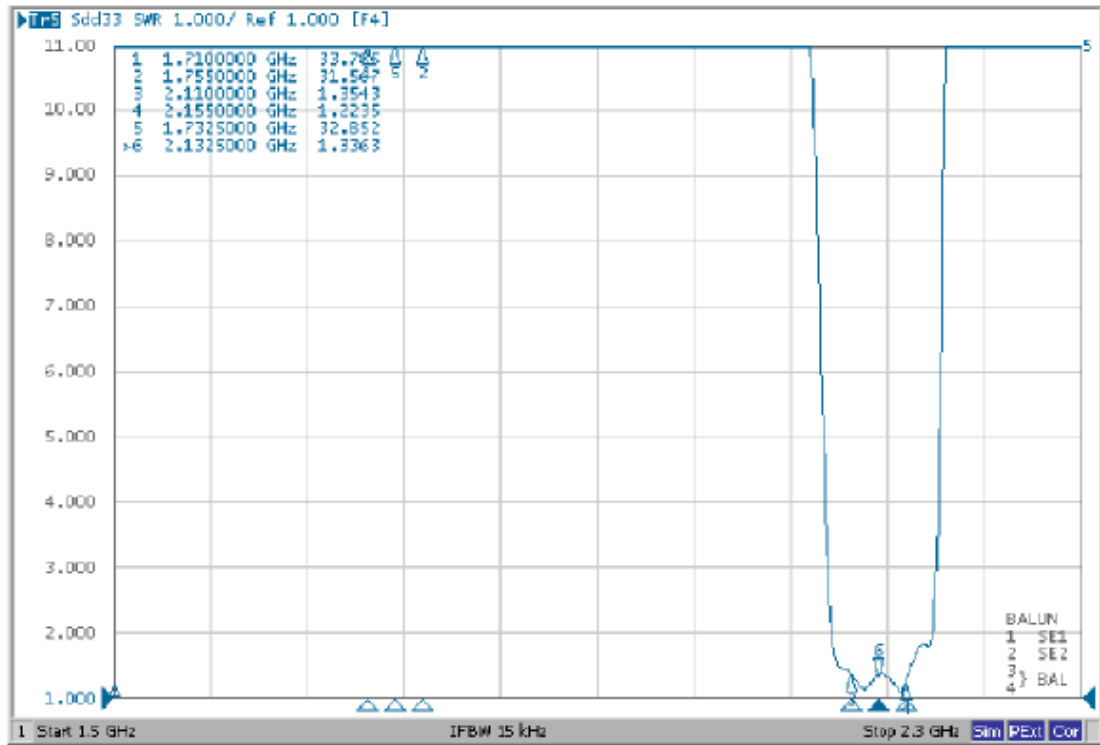
6. Smith Chart (Tx Port)



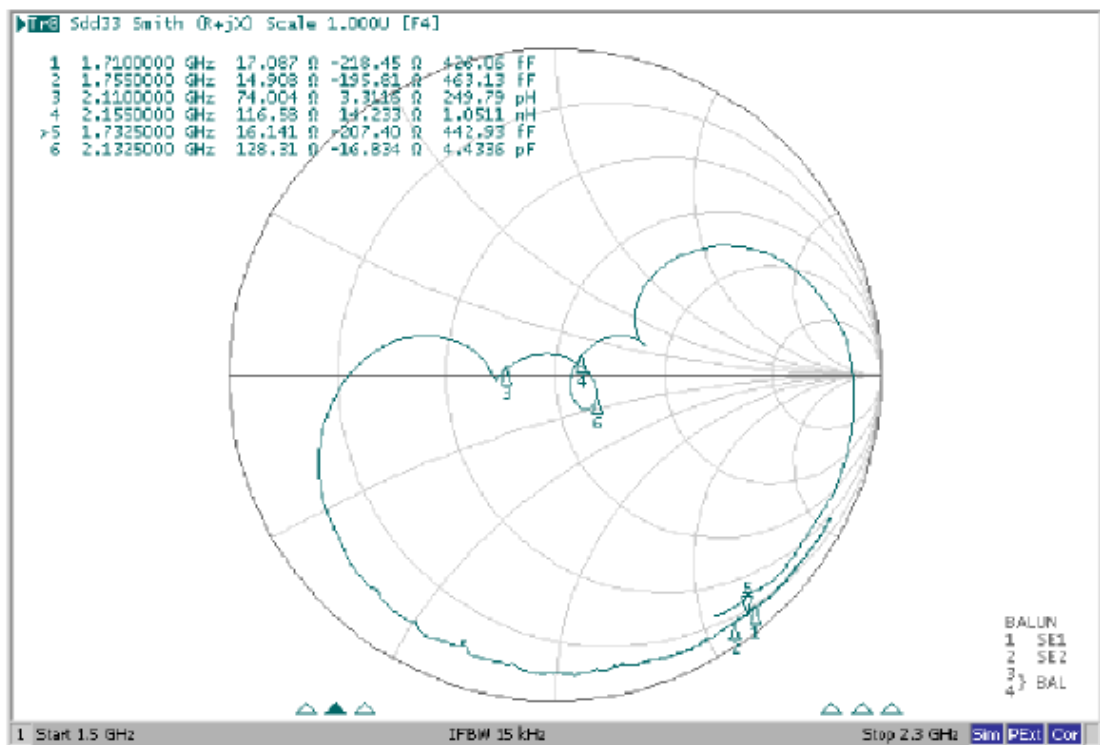
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7. VSWR (Rx Port)



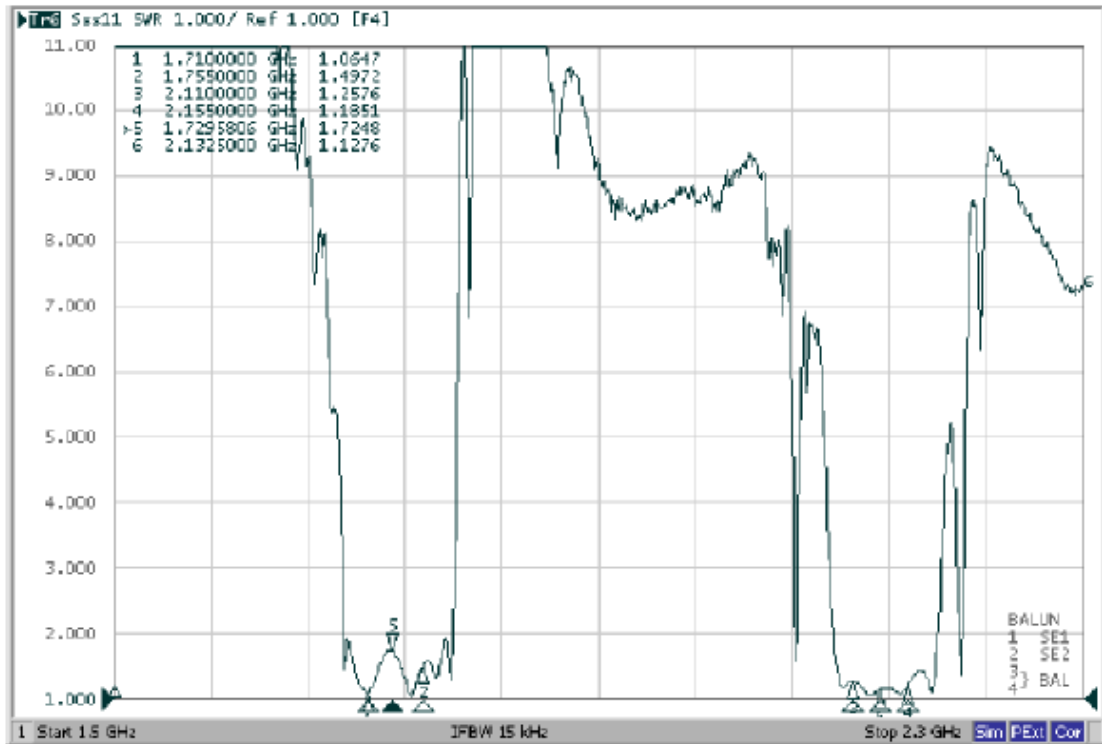
8. Smith Chart (Rx Port)



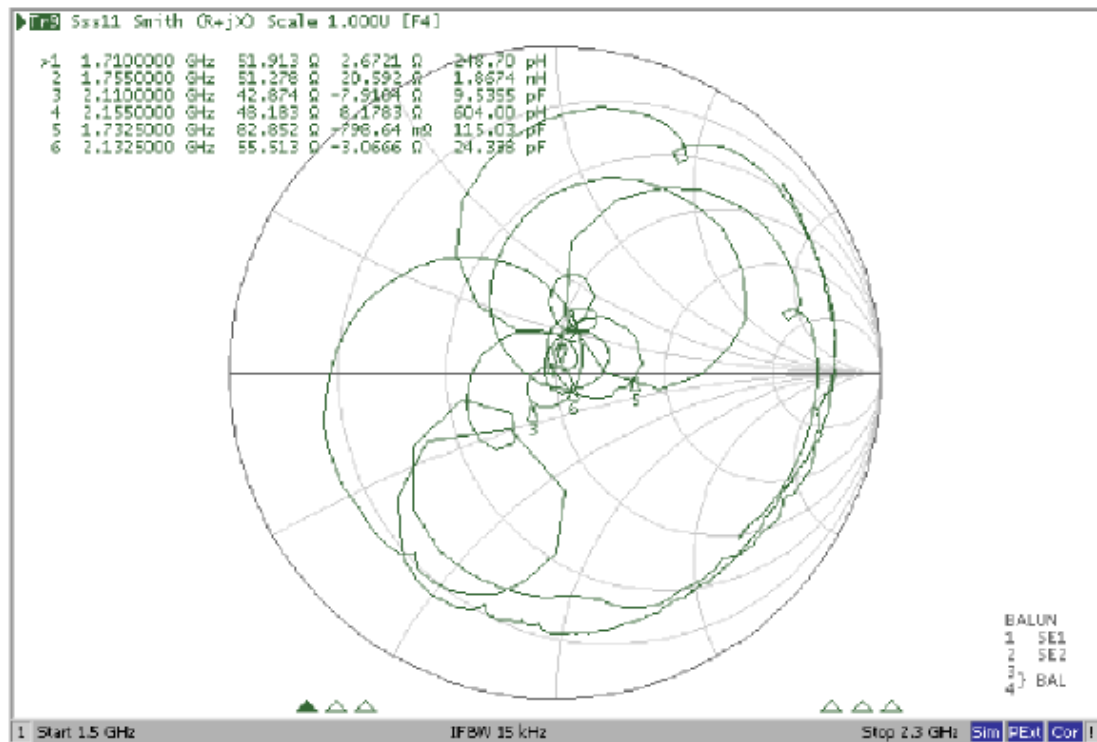
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9. VSWR (ANT Port)



10. Smith Chart (ANT Port)

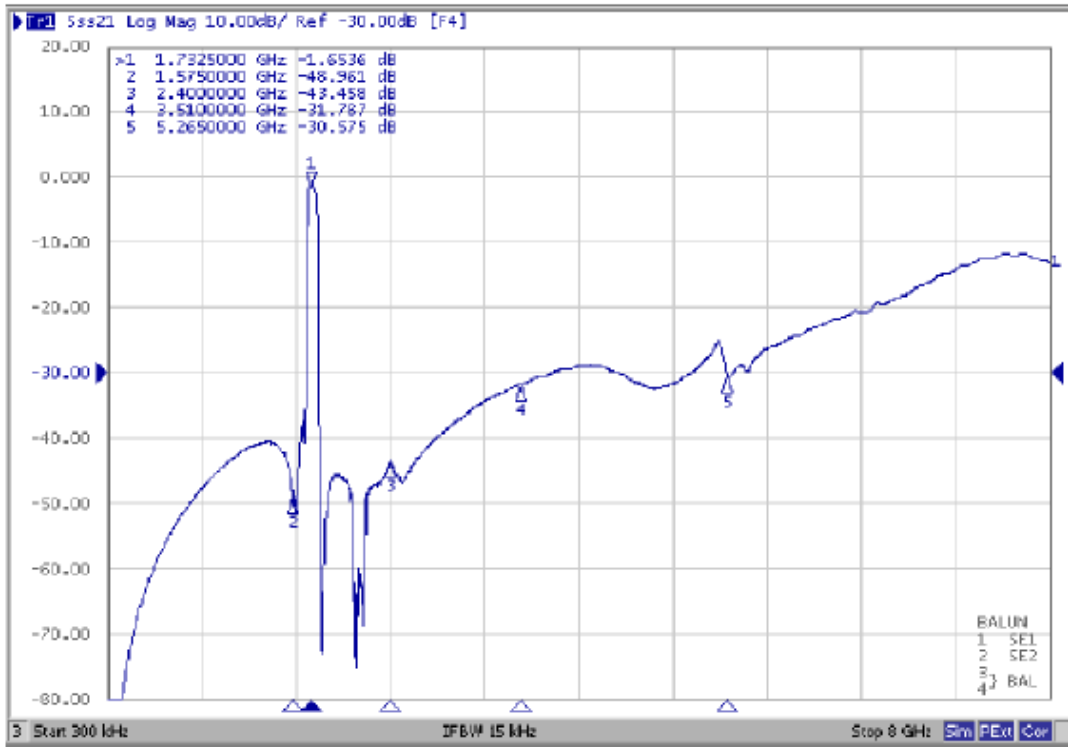


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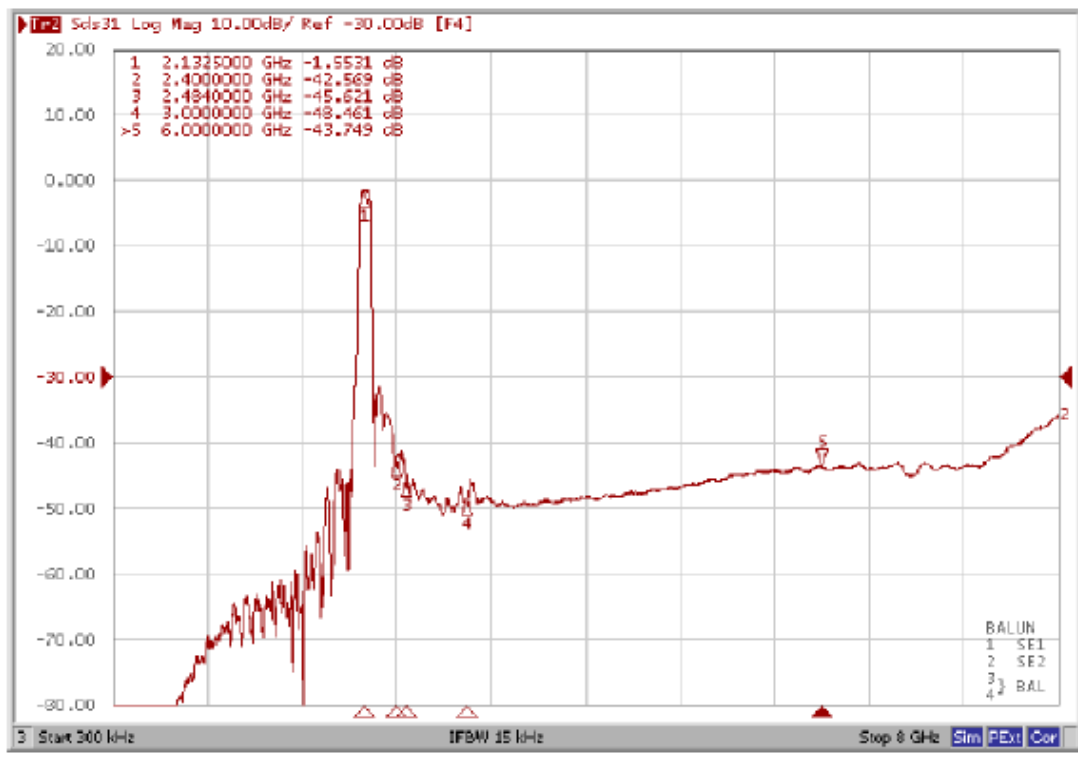
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11. Wide Span

Tx



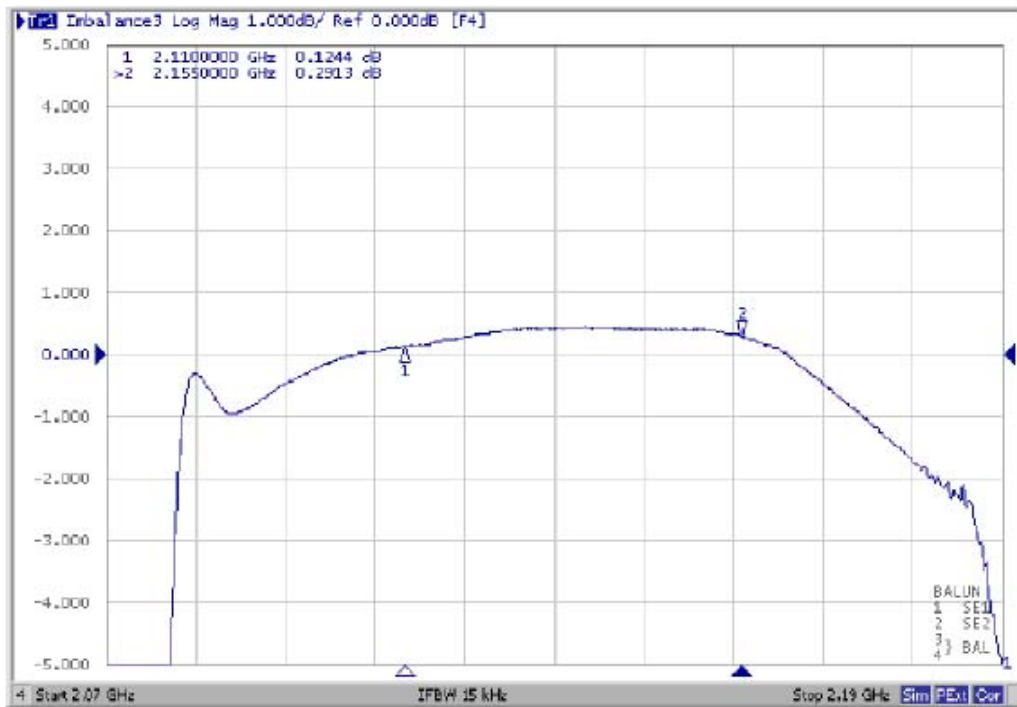
Rx



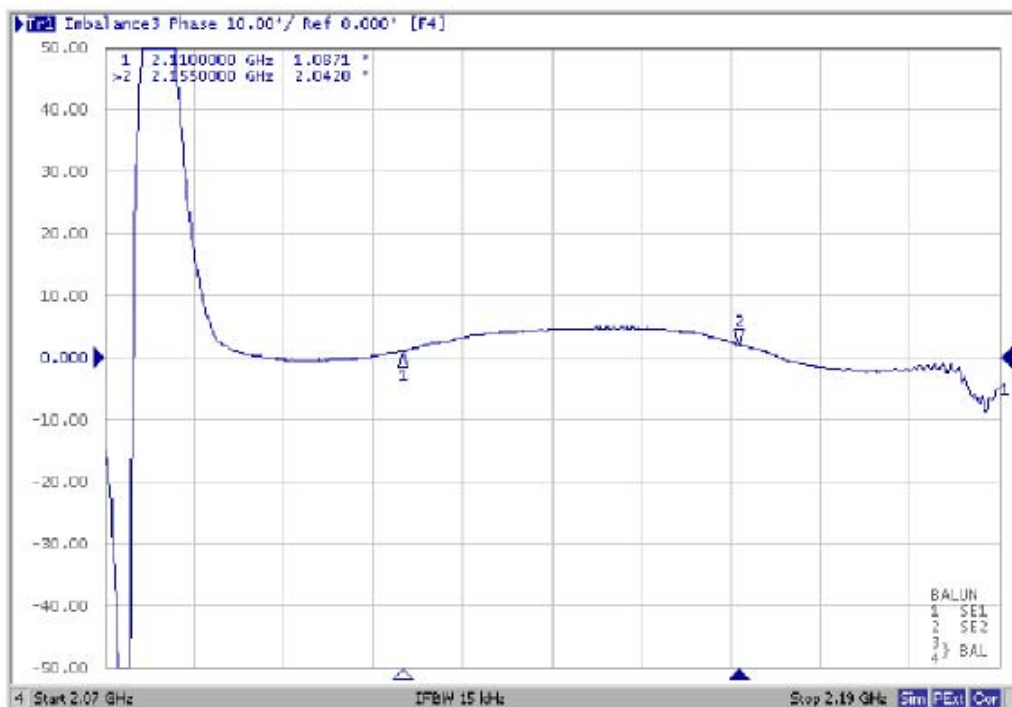
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Amplitude balance of Ant to Rx+/Rx-



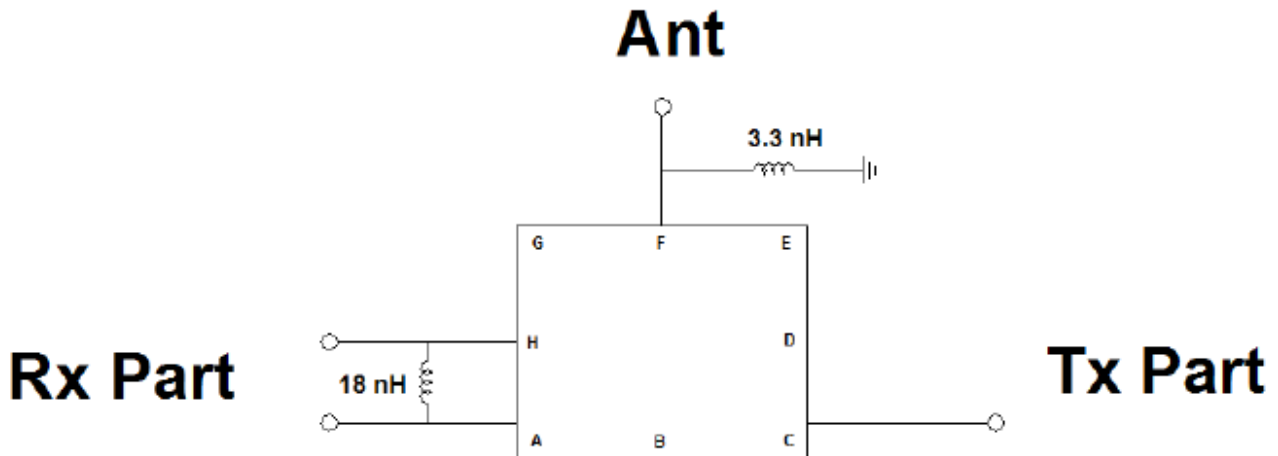
Phase balance of Ant to Rx+/Rx-



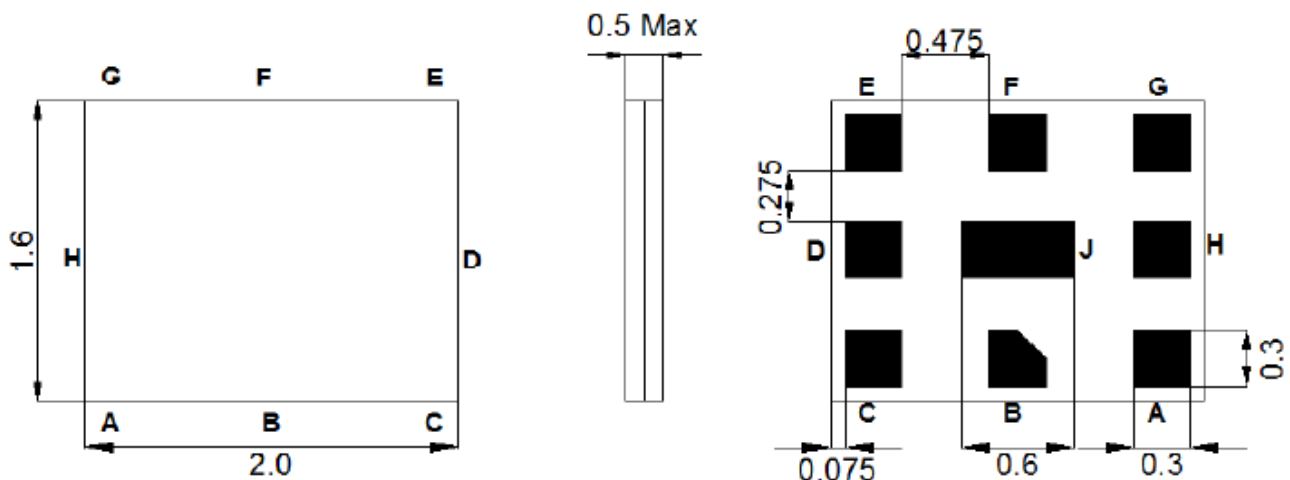
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D. MEASUREMENT CIRCUIT:



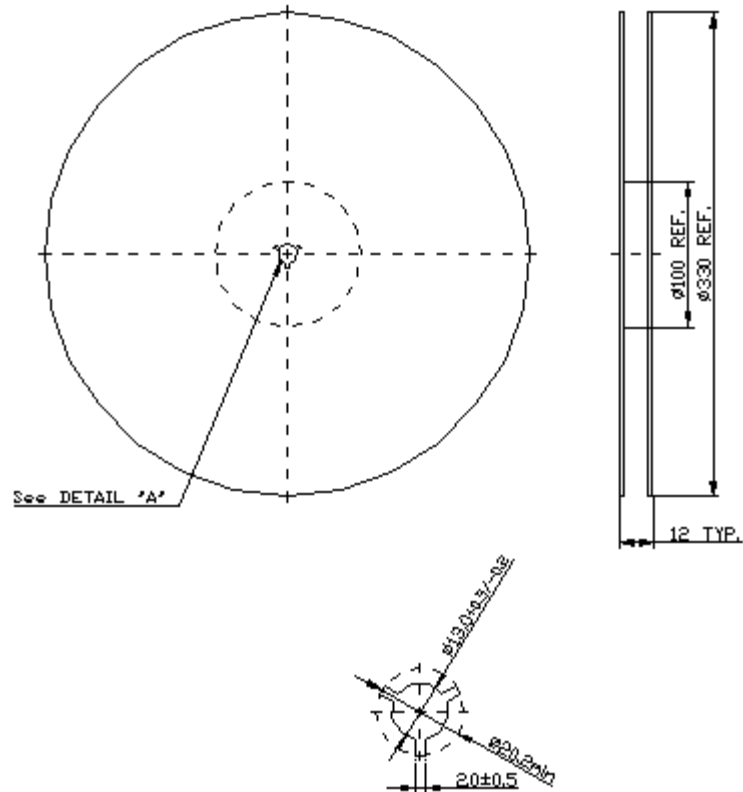
E. OUTLINE DRAWING:



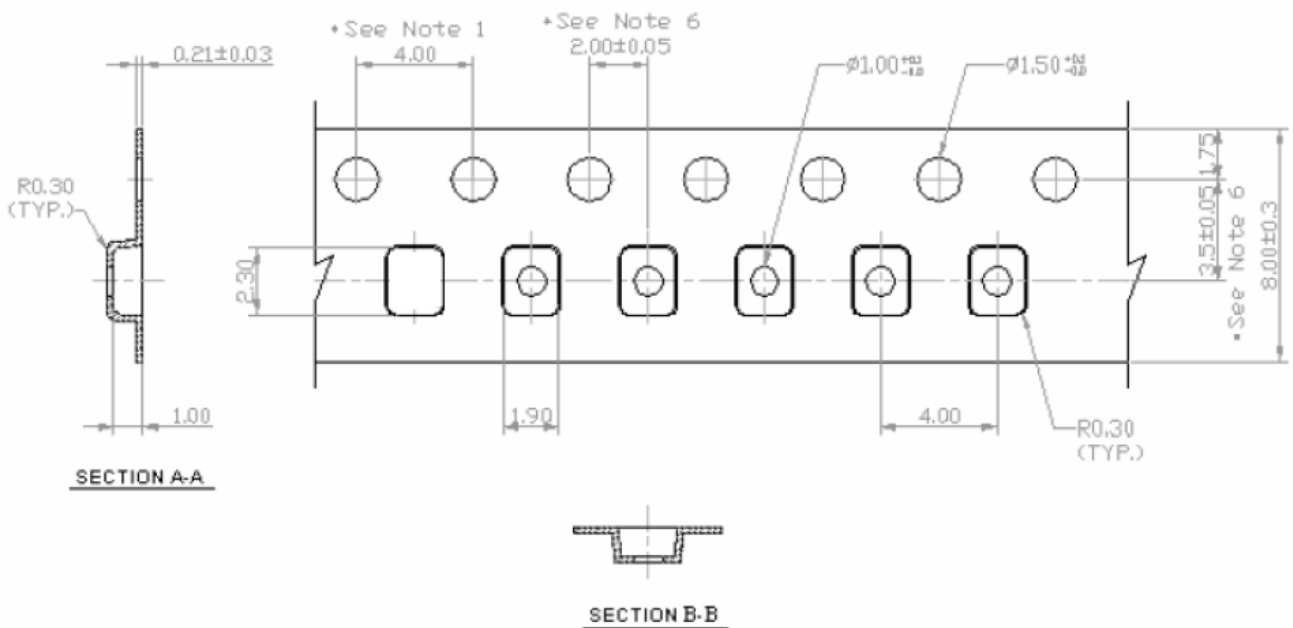
B, D, E, G, J: Ground
 A, H: Rx Port (2132.50MHz)
 F: Ant
 C: Tx Port (1732.50MHz)

F. PACKING:

1. Reel Dimension



2. Tape Dimension



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G. RECOMMENDED REFLOW PROFILE:

