

SAW Duplexer 1950 / 2140MHz
Part No: MP05760

Model: TF0088A
Rev. No: 1

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:

Tx to Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	1920.0 ~ 1980.0	dB	-	1.5	1.8
Ripple	1920.0 ~ 1980.0	dB _{p-p}	-	0.4	1.0
VSWR of Ant Port	1920.0 ~ 1980.0	-	-	1.7	2.0
VSWR of Tx Port	1920.0 ~ 1980.0	-	-	1.8	2.1
Attenuation	1574.0 ~ 1577.0	dB	30	36	-
	2110.0 ~ 2170.0	dB	38	41	-
	2400.0 ~ 2500.0	dB	25	29	-
	3840.0 ~ 3960.0	dB	10	14	-

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Ant to Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	2110.0 ~ 2170.0	dB	-	1.6	2.2
Ripple	2110.0 ~ 2170.0	dB _{p-p}	-	0.5	1.0
VSWR of Ant Port	2110.0 ~ 2170.0	-	-	1.5	2.0
VSWR of Rx Port	2110.0 ~ 2170.0	-	-	1.5	2.0
Attenuation	1920.0 ~ 1980.0	dB	45	48	-
	1980.0 ~ 2025.0	dB	30	48	-
	2400.0 ~ 2500.0	dB	25	33	-
Amplitude balance(S ₃₁ /S ₄₁)	2110.0 ~ 2170.0	dB	-1.3	-0.2/+1.0	+1.3
Phase balance Φ(S ₃₁)-Φ(S ₄₁)+180°C	2110.0 ~ 2170.0	deg	-10	-5/+1	+10

Tx to Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Min.	Typ.	Max.
Isolation in Tx Band	1920.0 ~ 1980.0	dB	55	59	-
Isolation in Rx Band	2110.0 ~ 2170.0	dB	44	47	-

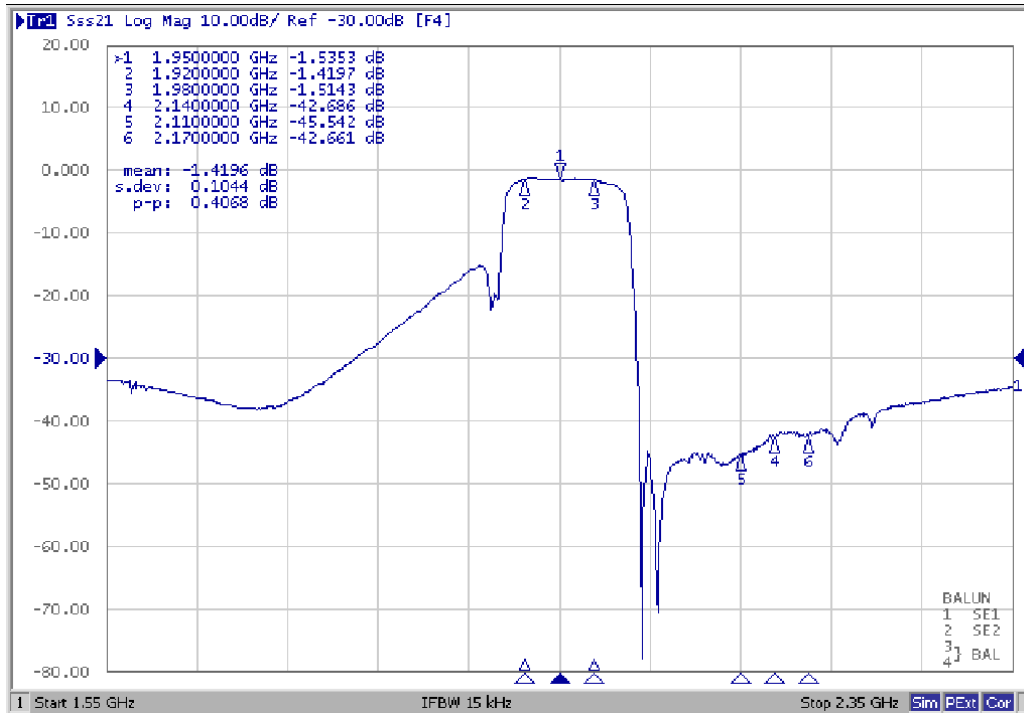
Notes: (1) With Matching Network.

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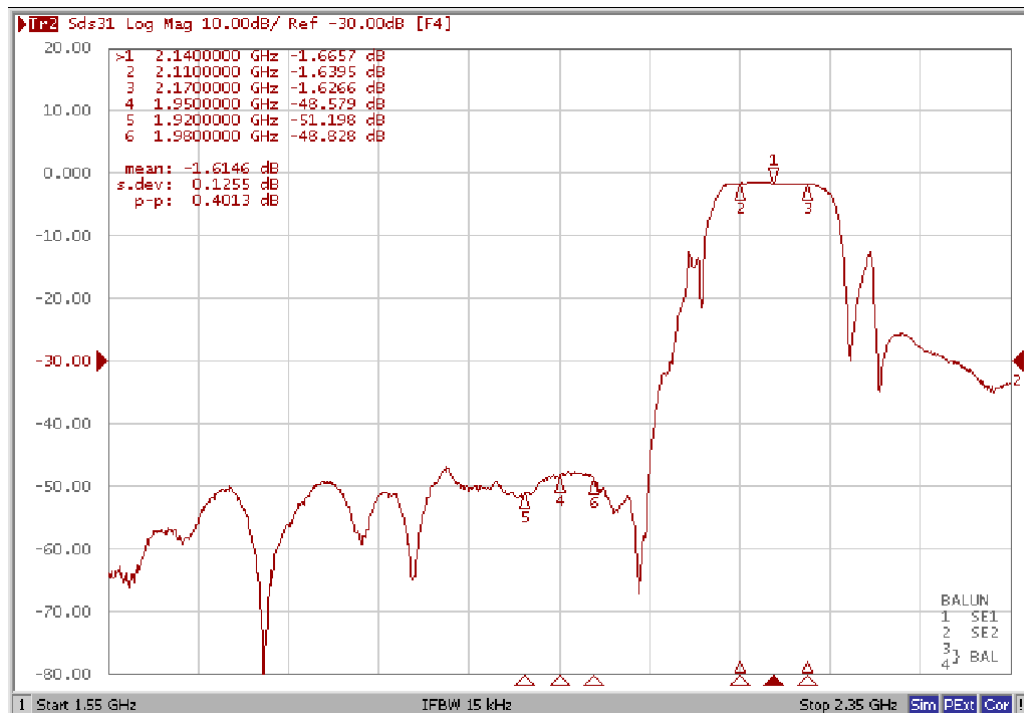
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C. FREQUENCY CHARACTERISTICS:

Tx to Ant



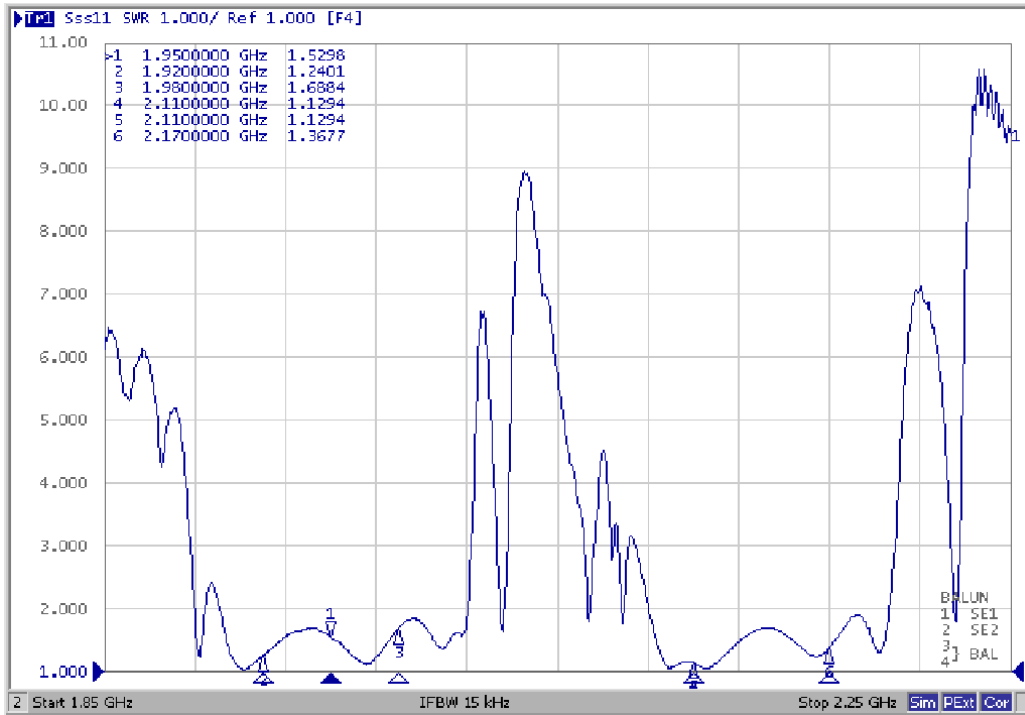
Ant to Rx



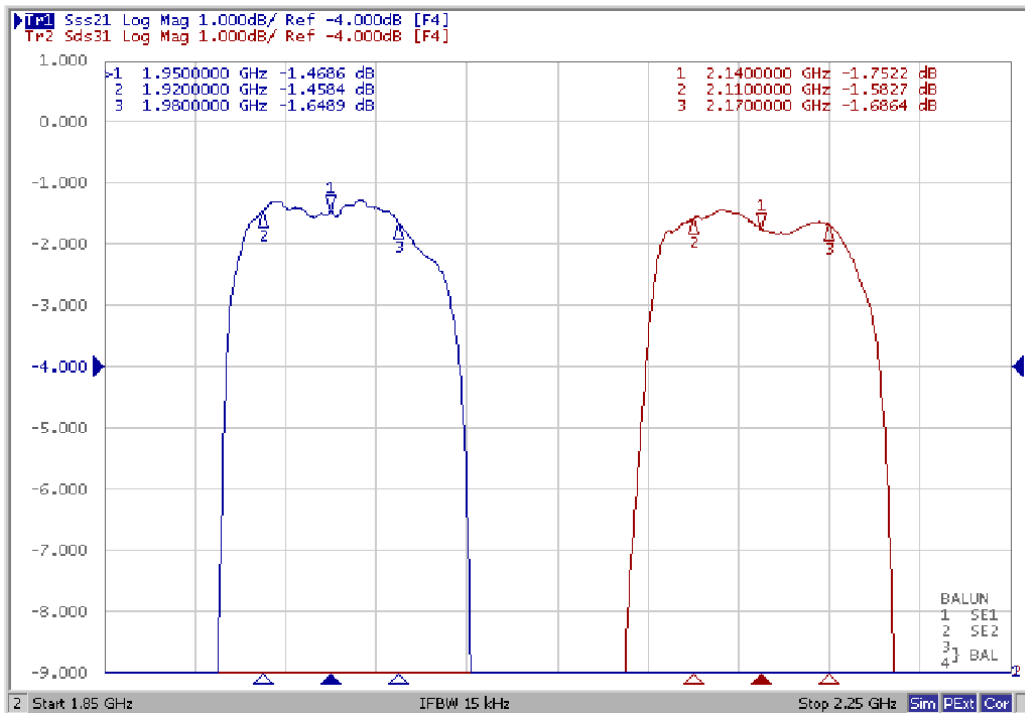
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Isolation



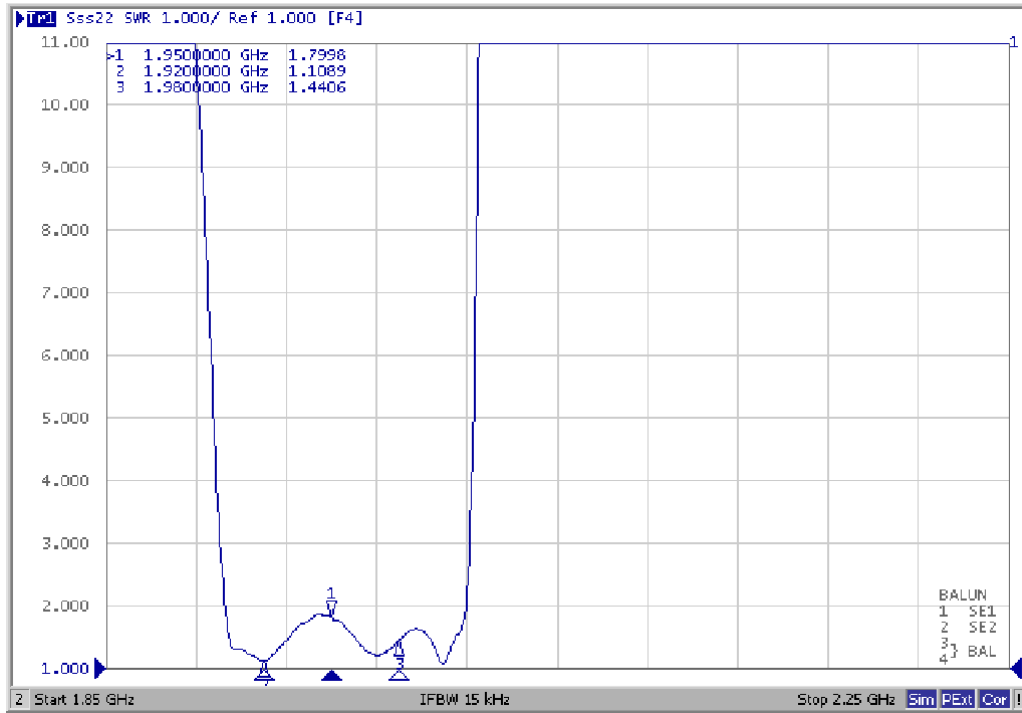
Ripple



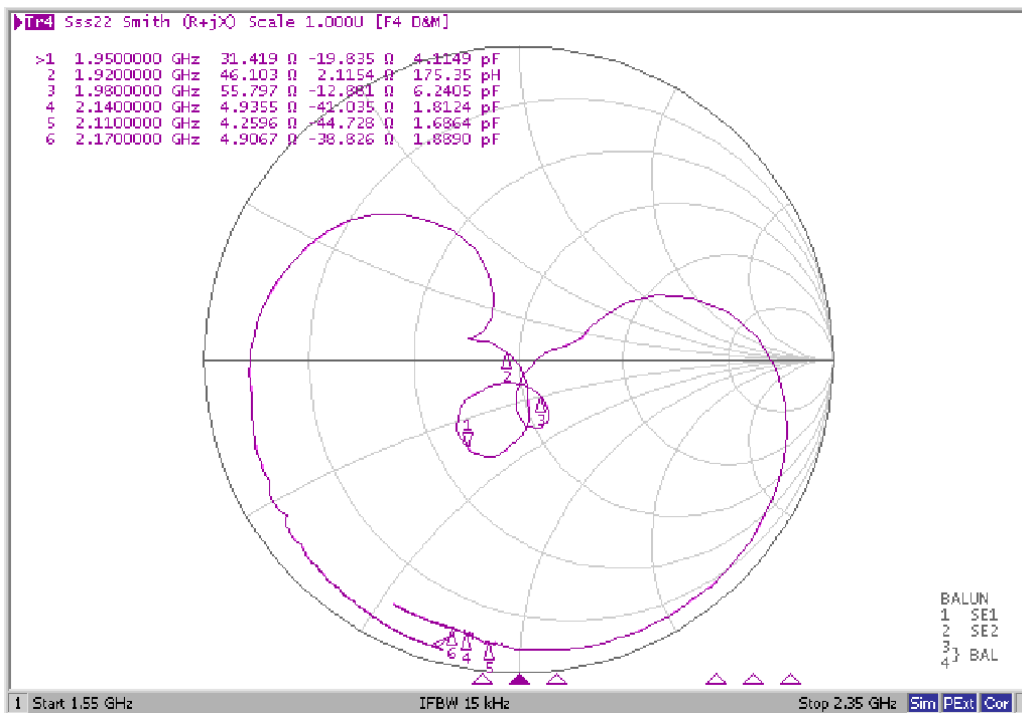
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VSWR (Tx Port)



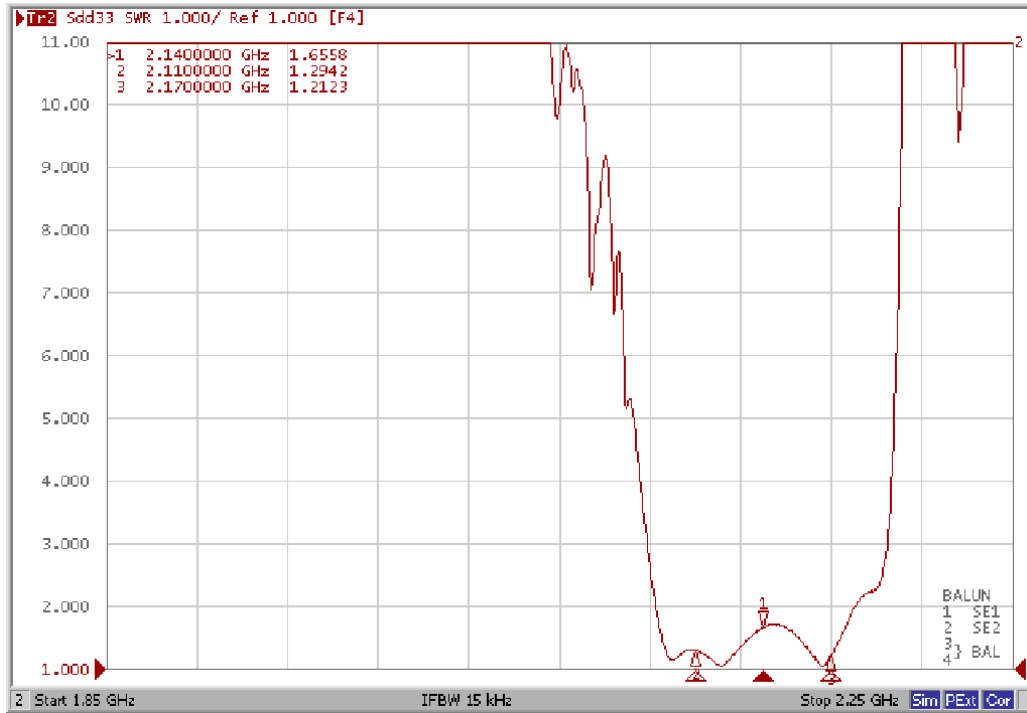
Smith Chart (Tx Port)



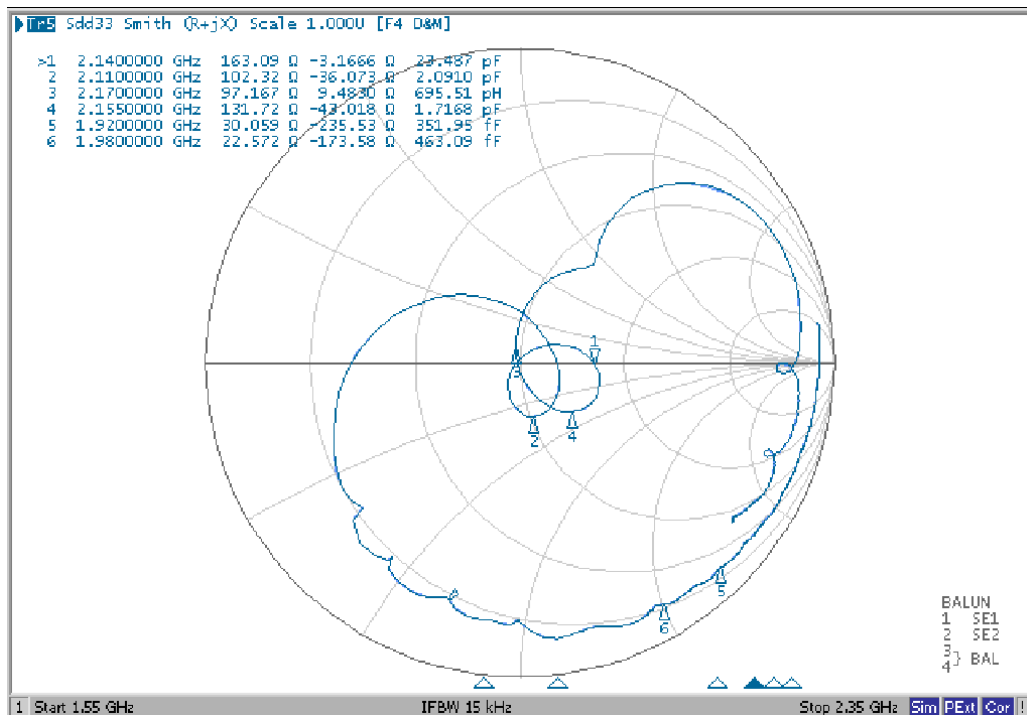
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VSWR (Rx Port)



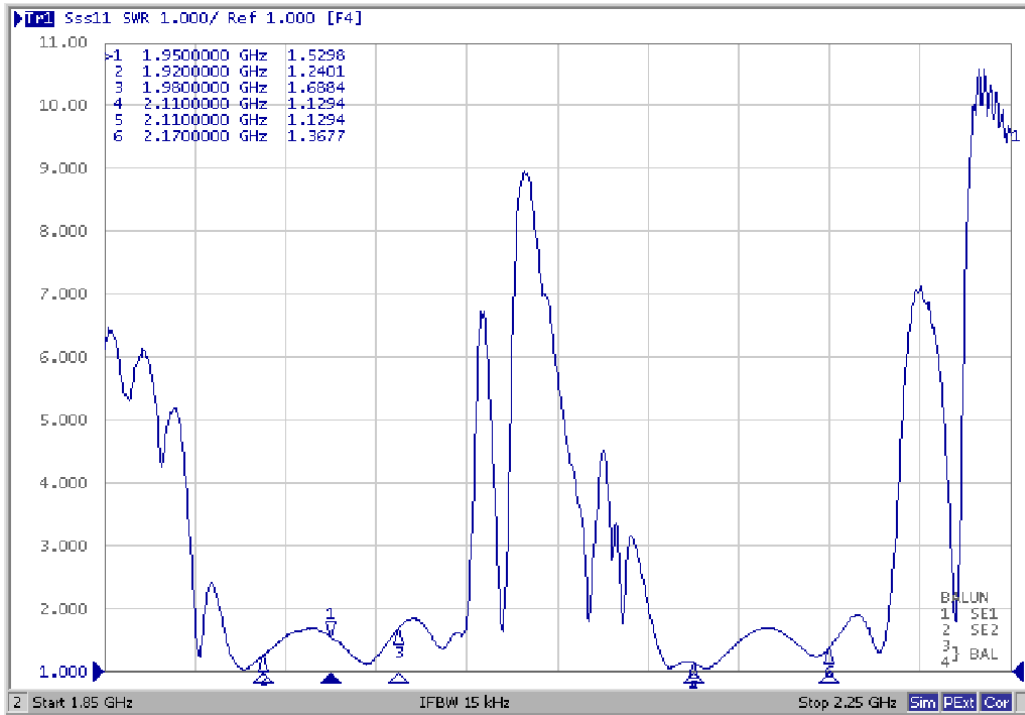
Smith Chart (Rx Port)



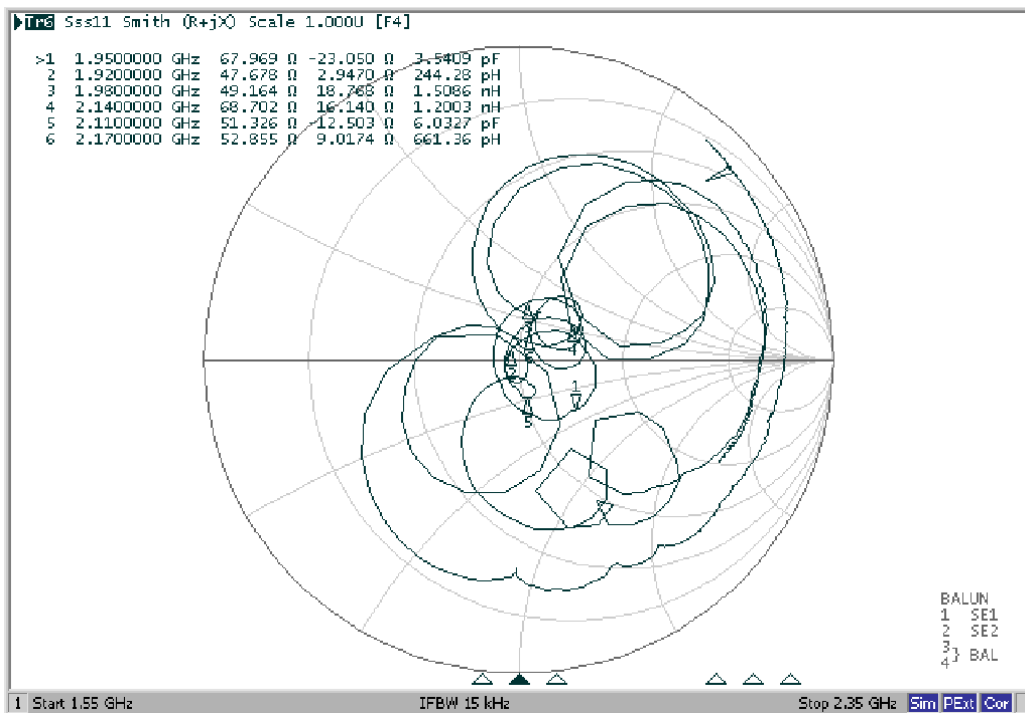
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VSWR (ANT Port)



Smith Chart (ANT Port)

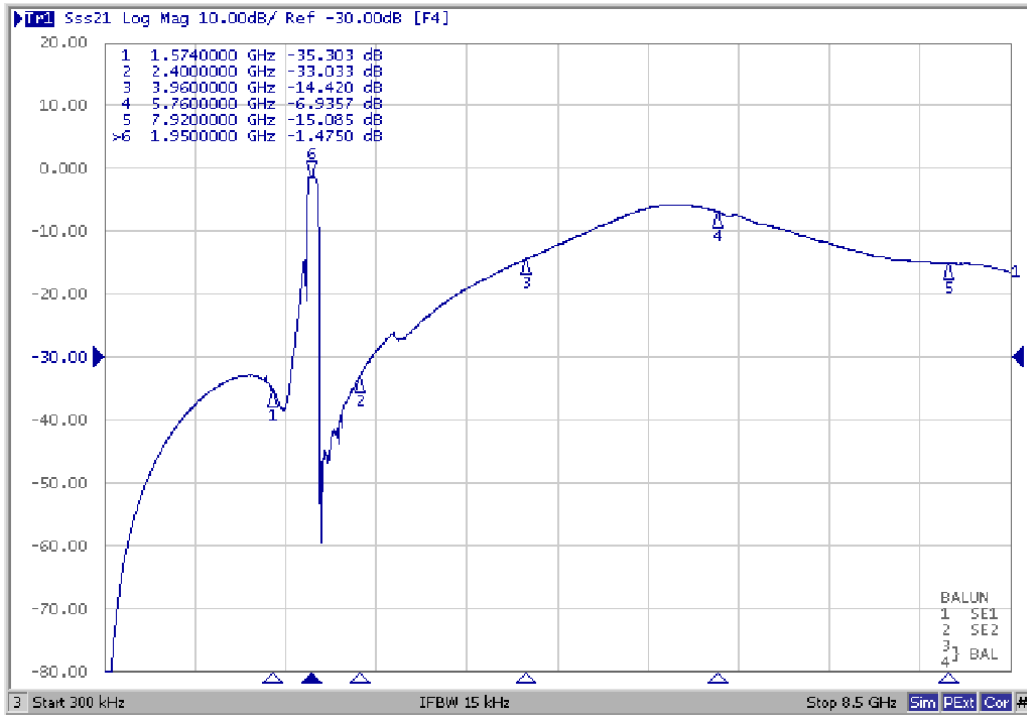


SAW Duplexer 1950 / 2140MHz
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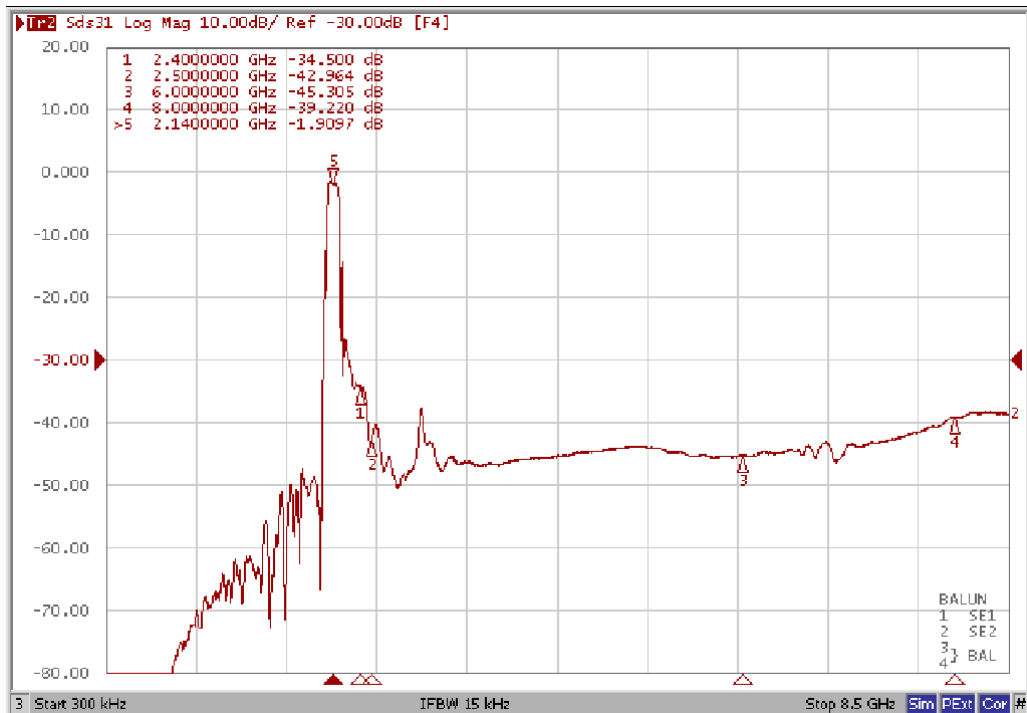
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Wide Span

Tx



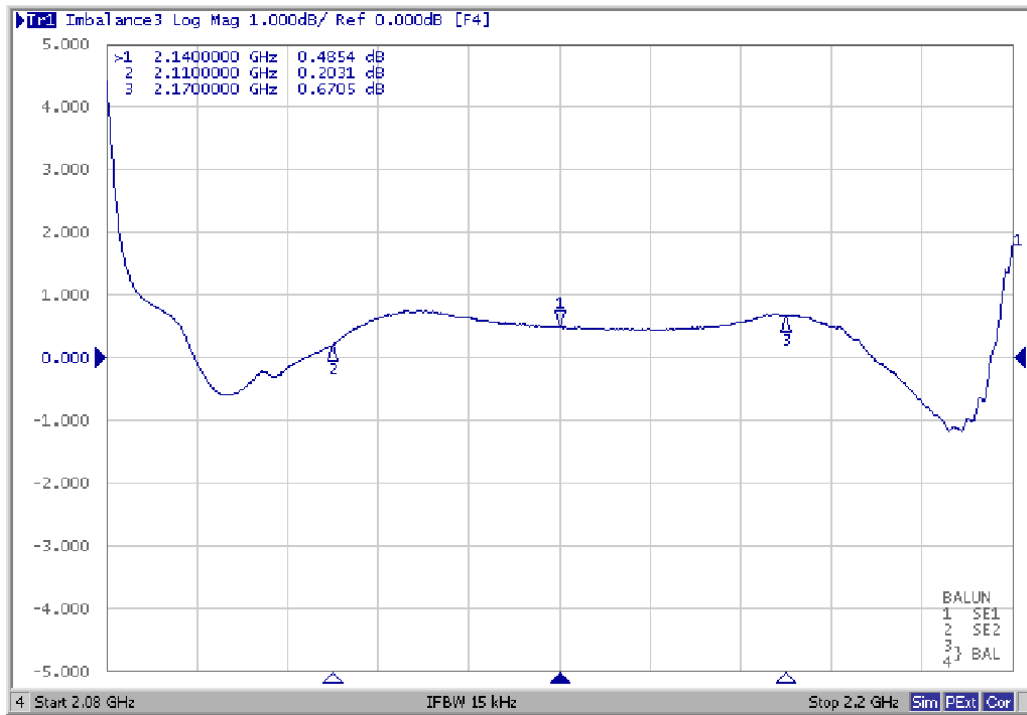
Rx



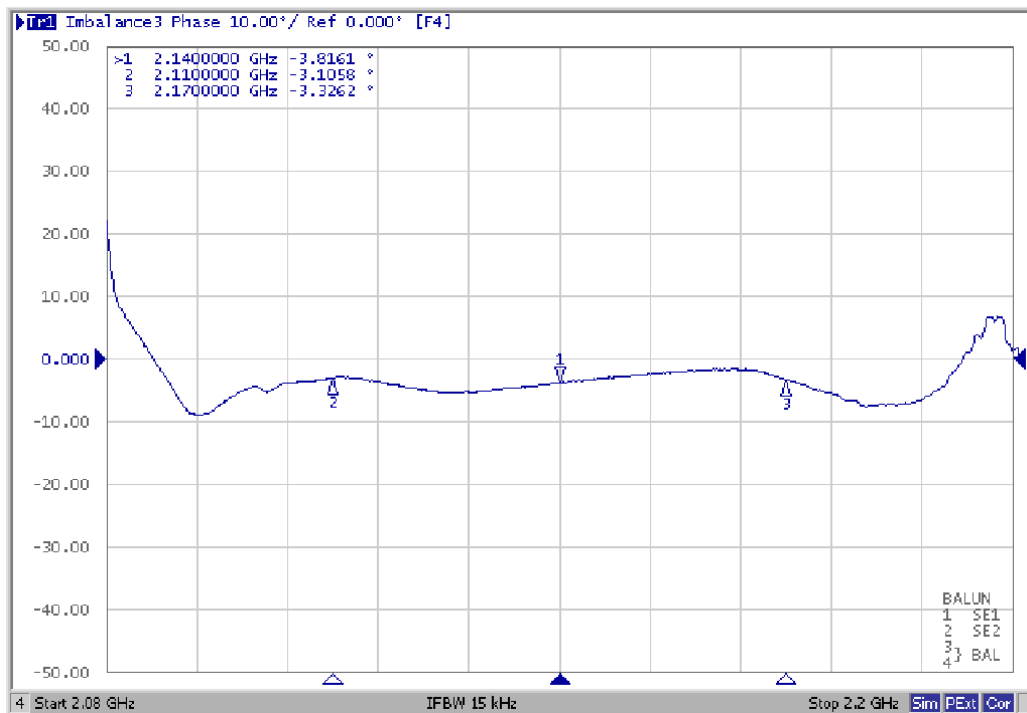
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Amplitude balance of Ant to Rx+/Rx-



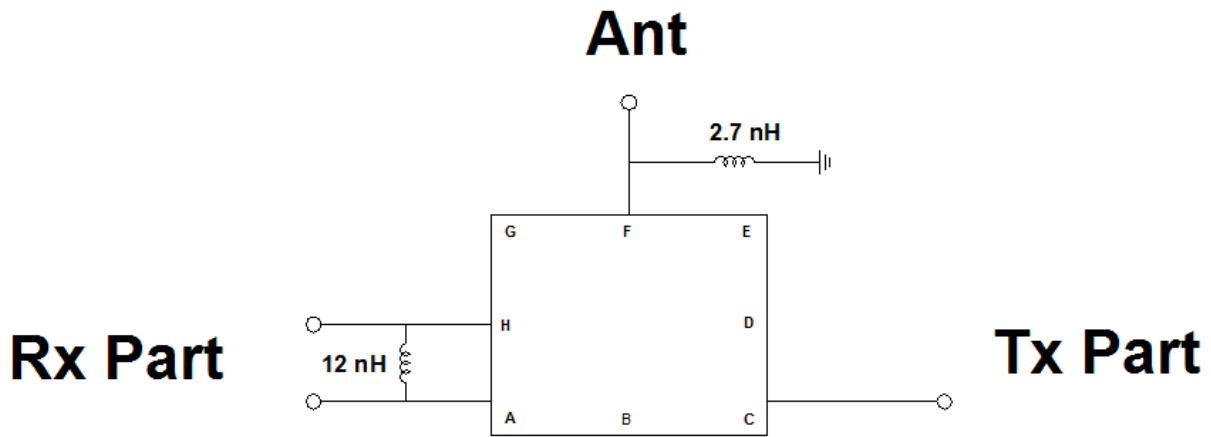
Phase balance of Ant to Rx+/Rx-



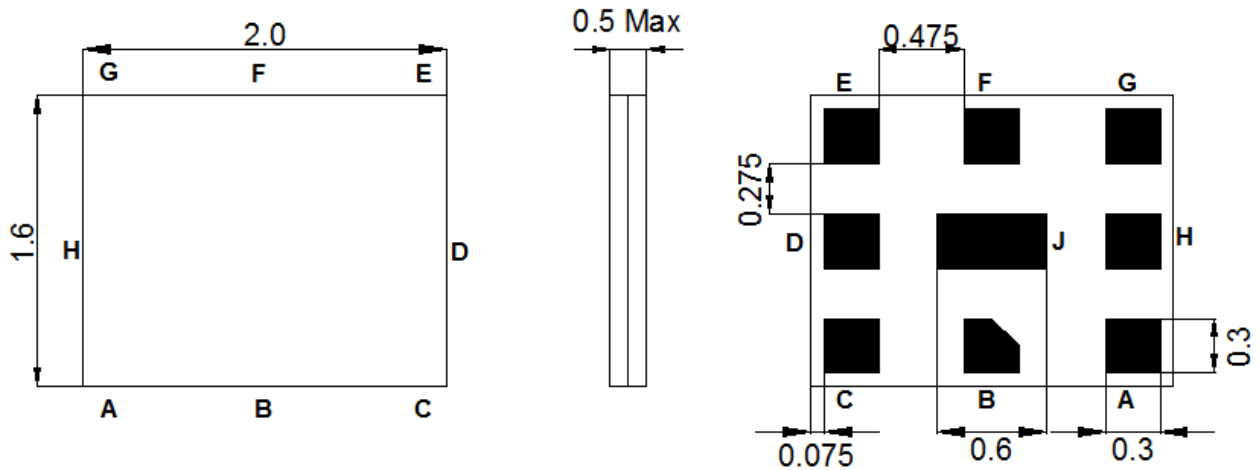
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D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



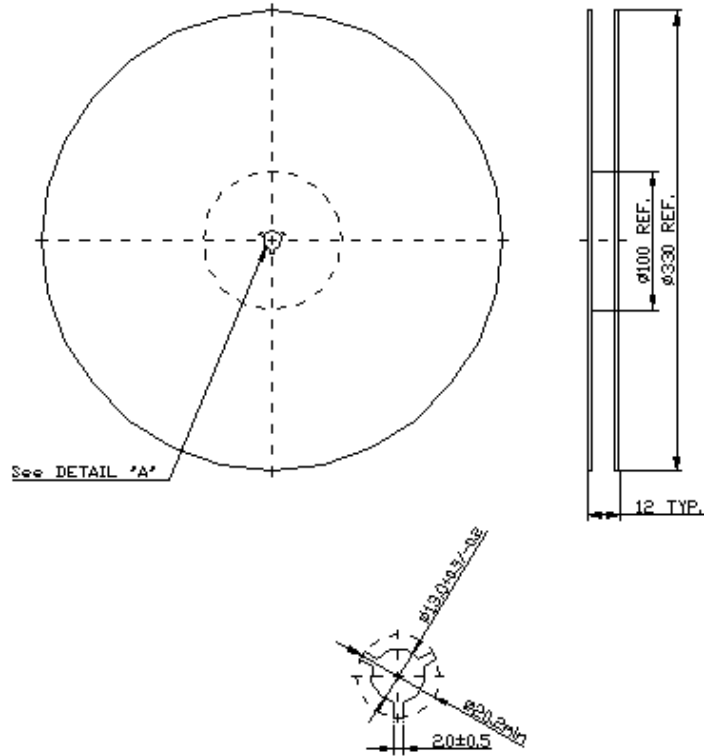
Pin Description	
B, D, E, G, J	Ground
F	Ant
C	Tx (1950.0MHz)
A,H	Rx (2140.0MHz)

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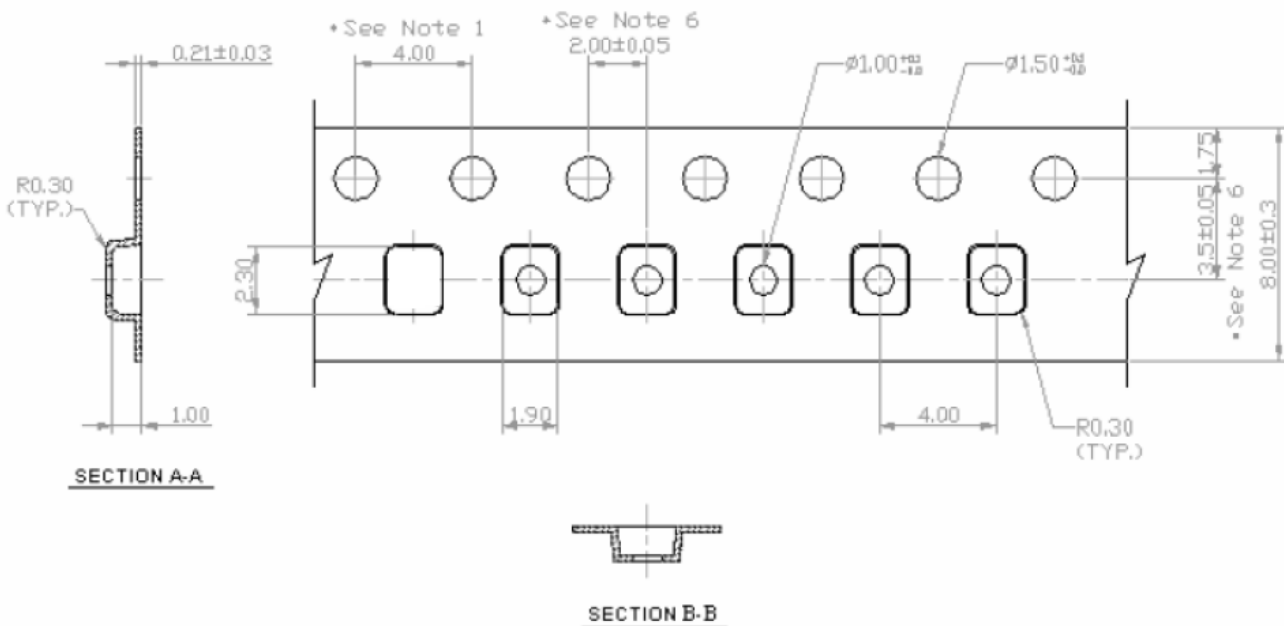
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F. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



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G. RECOMMENDED REFLOW PROFILE:

