



Total Solution Provider in Saw Device

SD-2655T2-C45

Band 7, BAW Duplexer
Revision 0: September 2015



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com



□ Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-20	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Input Power at Tx Port	dBm	29dBm, Ta=+50°C, 50kh, CW		
Antenna Impedance(Unbalanced)	Ω	50//2.7nH		
Tx Impedance(Unbalanced)	Ω	50		
Rx Impedance (Unbalanced)	Ω	50		
Package type		C45		
Length x Width	mm ²	2.0 x 1.6		
Height	mm	0.54		



Electrical Specification

Tx to Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	2500.0 ~ 2510.0	dB	-	2.1	3.0
	2510.0 ~ 2570.0	dB	-	1.6	2.4
Ripple	2500.0 ~ 2570.0	dB _{p-p}	-	1.2	2.3
VSWR of Ant Port	2500.0 ~ 2570.0	-	-	1.7	2.1
VSWR of Tx Port	2500.0 ~ 2570.0	-	-	1.8	2.3
Absolute Attenuation	10.0 ~ 1565.42	MHz	30	41	-
	1565.42 ~ 1573.374	MHz	35	41	-
	1573.374 ~ 1577.466	MHz	35	41	-
	1577.466 ~ 1585.42	MHz	35	41	-
	1597.5515 ~ 1605.886	MHz	35	40	-
	1605.886 ~ 1680.0	MHz	25	40	-
	1805.0 ~ 1880.0	MHz	30	38	-
	1900.0 ~ 1920.0	MHz	30	38	-
	2010.0 ~ 2025.0	MHz	30	37	-
	2110.0 ~ 2170.0	MHz	30	37	-
	2401.0 ~ 2473.0 ⁽²⁾	MHz	35	45	-
	2456.0 ~ 2478.0 ⁽²⁾	MHz	30	45	-
	2461.0 ~ 2483.0 ⁽²⁾	MHz	20	40	-
	2474.0 ~ 2500.0	MHz	1	2	-
	2590.0 ~ 2620.0	MHz	1	6	-
	2620.0 ~ 2690.0	MHz	45	55	-
	4900.0 ~ 5950.0	MHz	20	49	-
5000.0 ~ 5140.0	MHz	25	50	-	
5100.0 ~ 5280.0	MHz	35	51	-	
7500.0 ~ 7710.0	MHz	25	40	-	



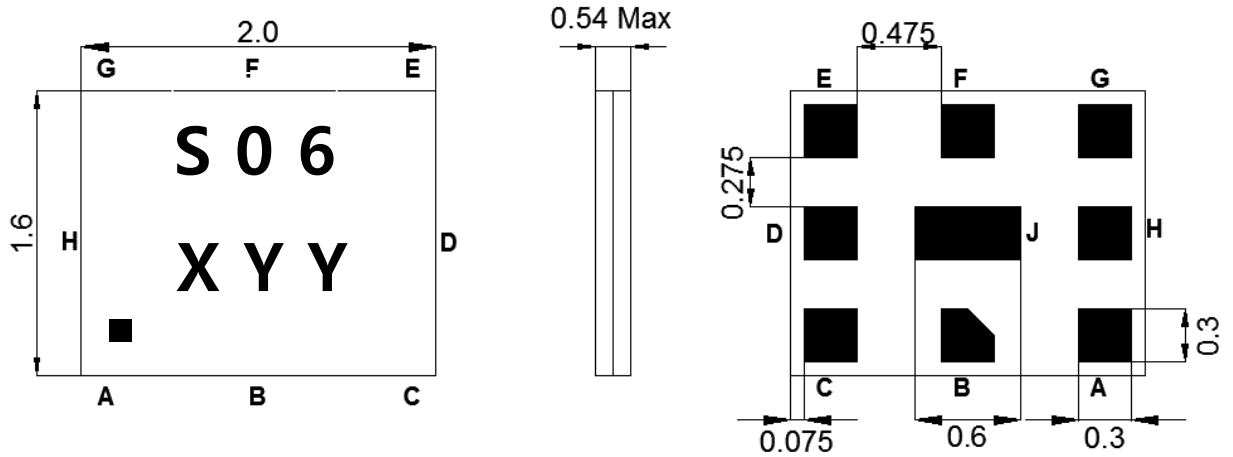
Ant to Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	2620.0 ~ 2690.0	dB	-	2.3	2.9
VSWR of Ant Port	2620.0 ~ 2690.0	-	-	1.9	2.3
VSWR of Rx Port	2620.0 ~ 2690.0	-	-	1.9	2.3
Absolute Attenuation	1.0 ~ 2500.0	dB	40	48	-
	45.0	dB	50	100	-
	832.0 ~ 862.0	dB	40	65	-
	1710.0 ~ 1785.0	dB	40	57	-
	2500.0 ~ 2570.0	dB	42	48	-
	2775.0 ~ 6000.0	dB	30	50	-
	2400.0 ~ 2500.0	dB	40	48	-
	4950.0 ~ 5950.0	dB	40	58	-
	7620.0 ~ 7830.0	dB	40	55	-
7860.0 ~ 8070.0	dB	40	55	-	

Tx to Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	2500.0 ~ 2570.0	dB	50	53	-
	2620.0 ~ 2690.0	dB	50	57	-
	1574.0 ~ 1577.0	dB	40	62	-
	5000.0 ~ 5140.0	dB	30	44	-
	7500.0 ~ 7710.0	dB	30	40	-

Notes : (1) With Matching Network .

(2) Integrated attenuation over 22MHz BW

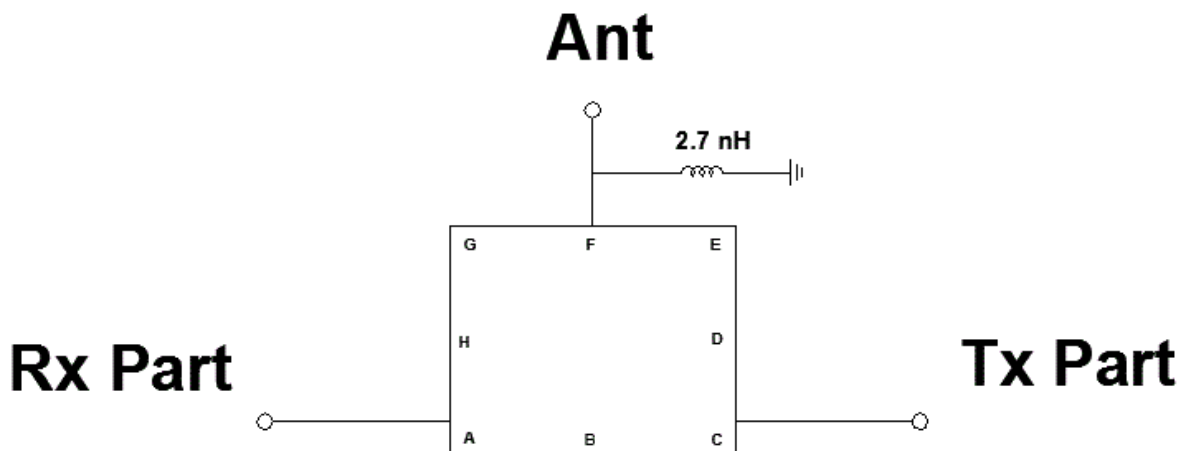
Package Dimensions



Marking Descriptions	
S	SAWNICS
06	Series Number
X	Date Code(Year+Month)
YY	Lot No

Pin Description	
B,D,E,G,H,J	Ground
F	Ant
C	Tx (2535.0MHz)
A	Rx (2655.0MHz)

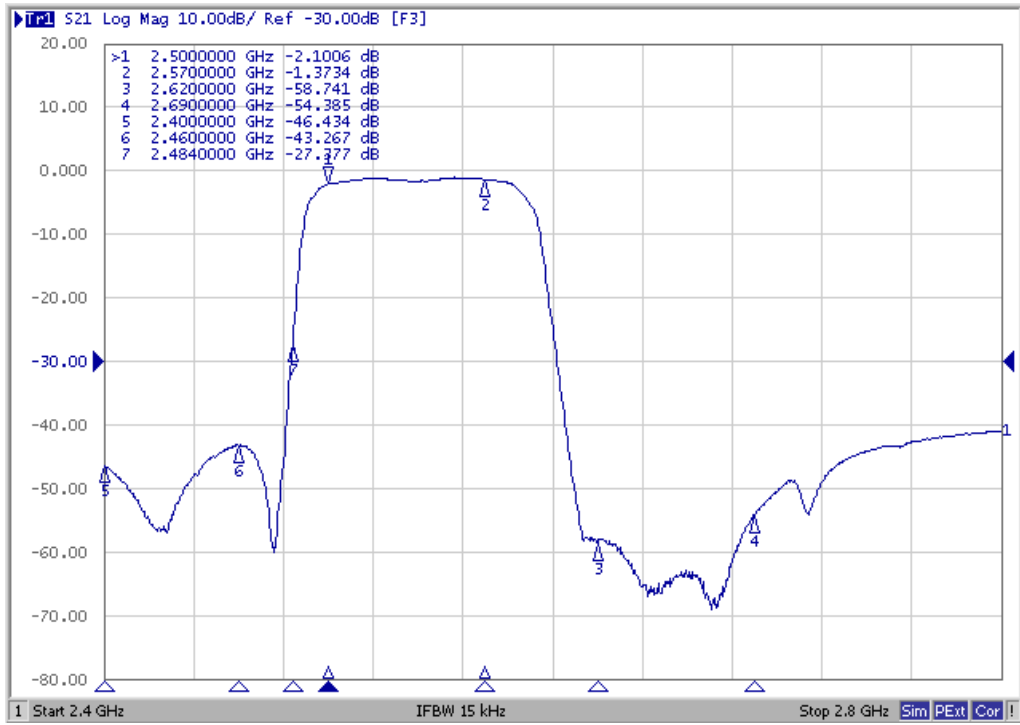
Testing Environment





□ Frequency Characteristics

Tx to Ant

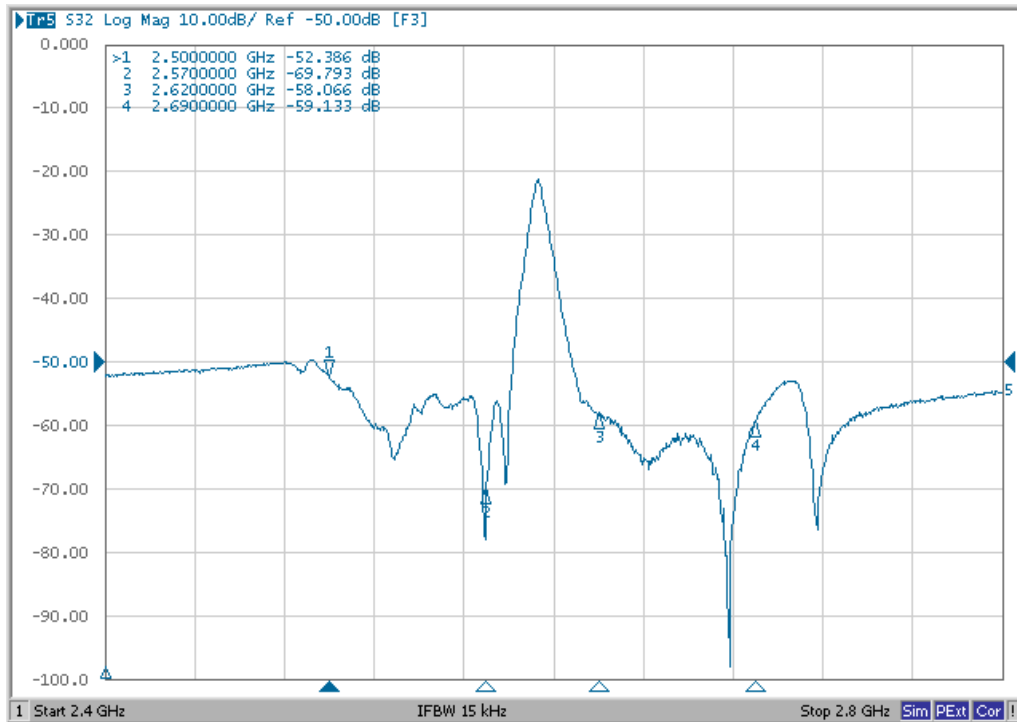


Ant to Rx

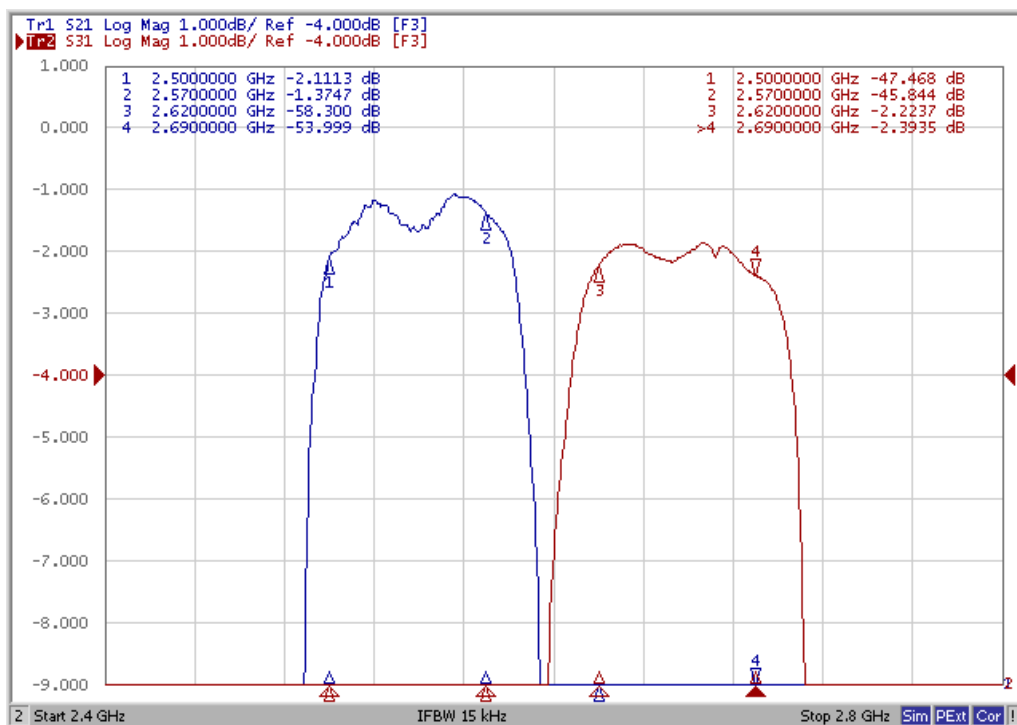




Isolation

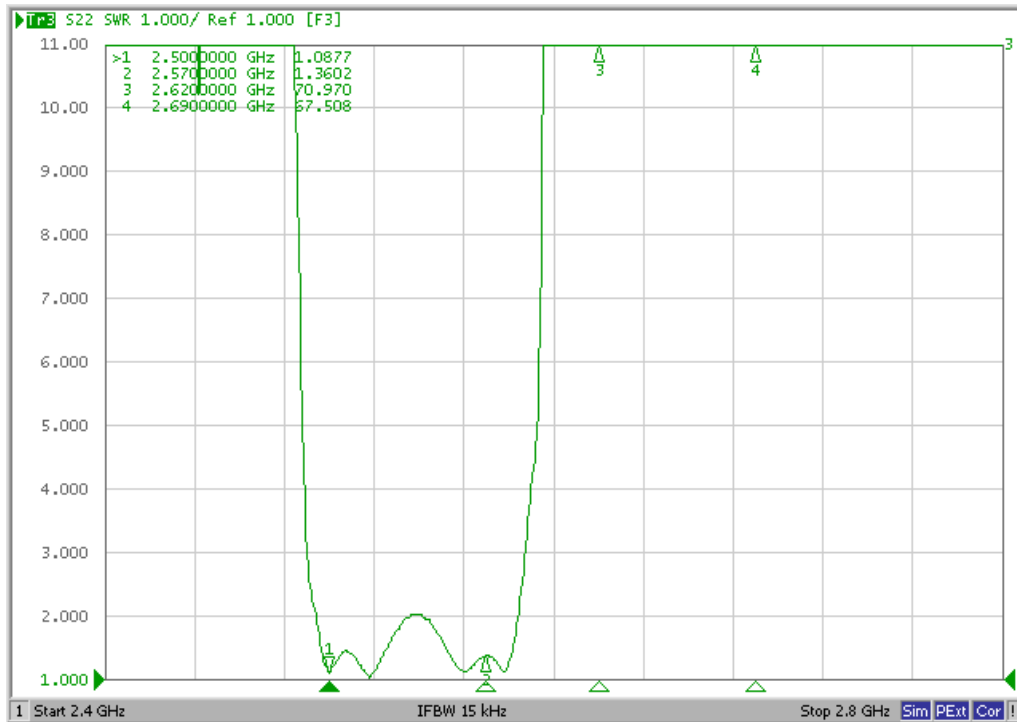


Ripple

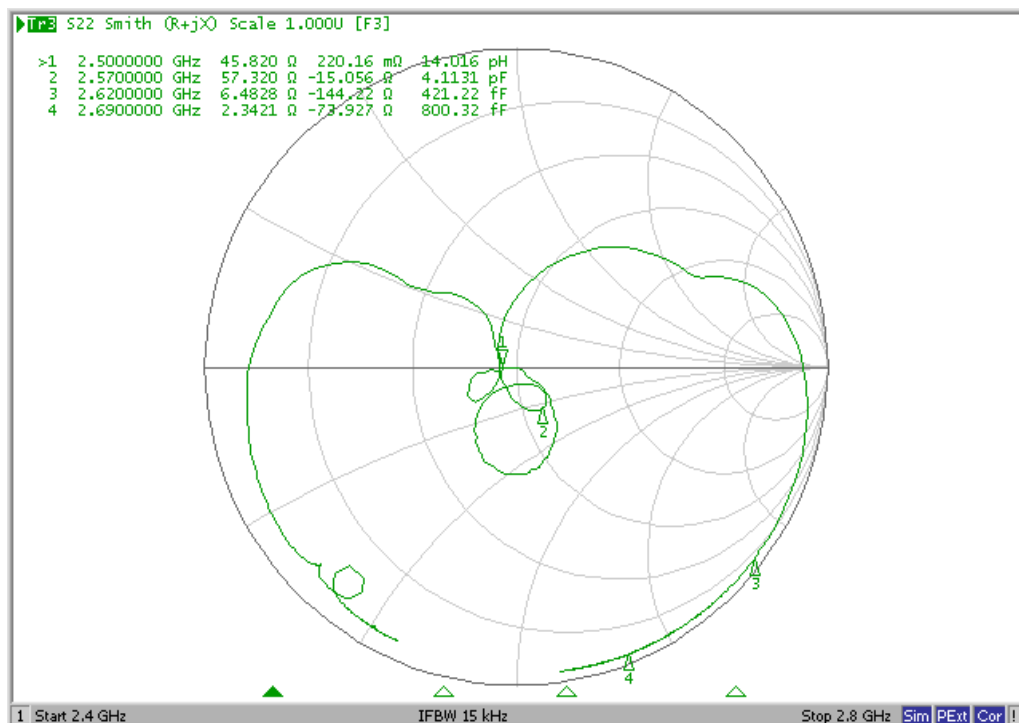




VSWR (Tx Port)

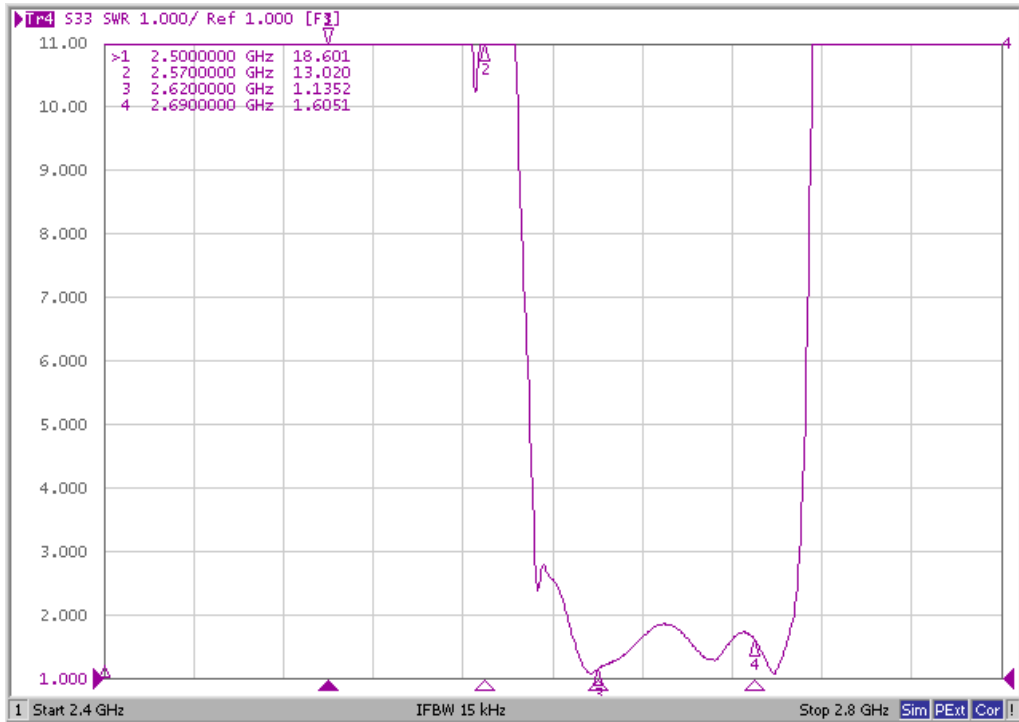


Smith Chart (Tx Port)

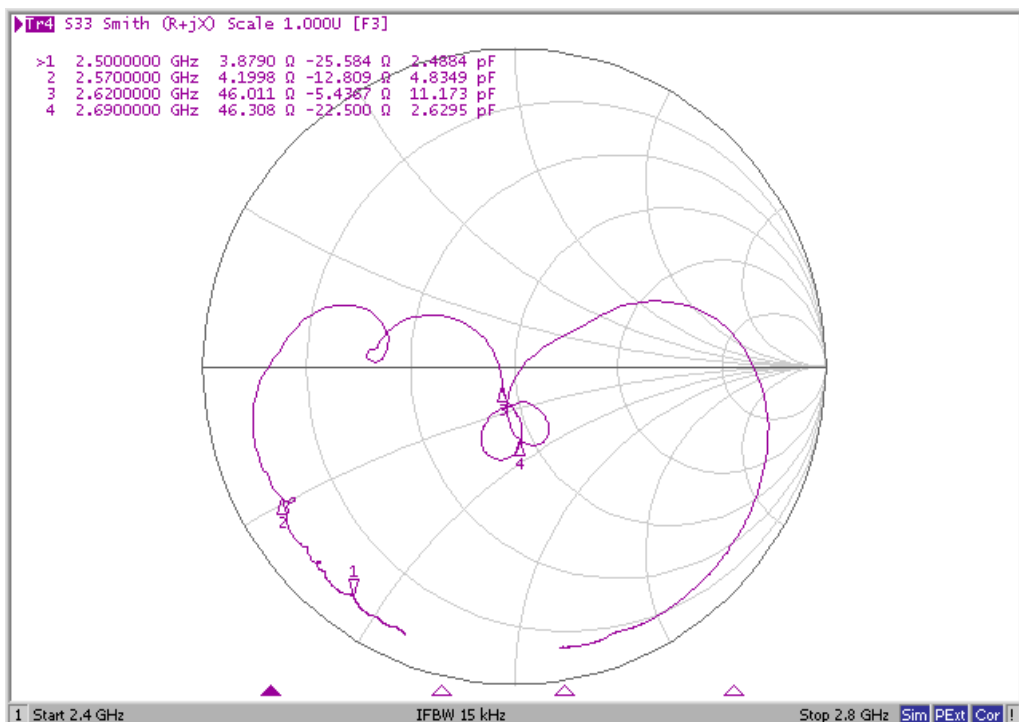




VSWR (Rx Port)

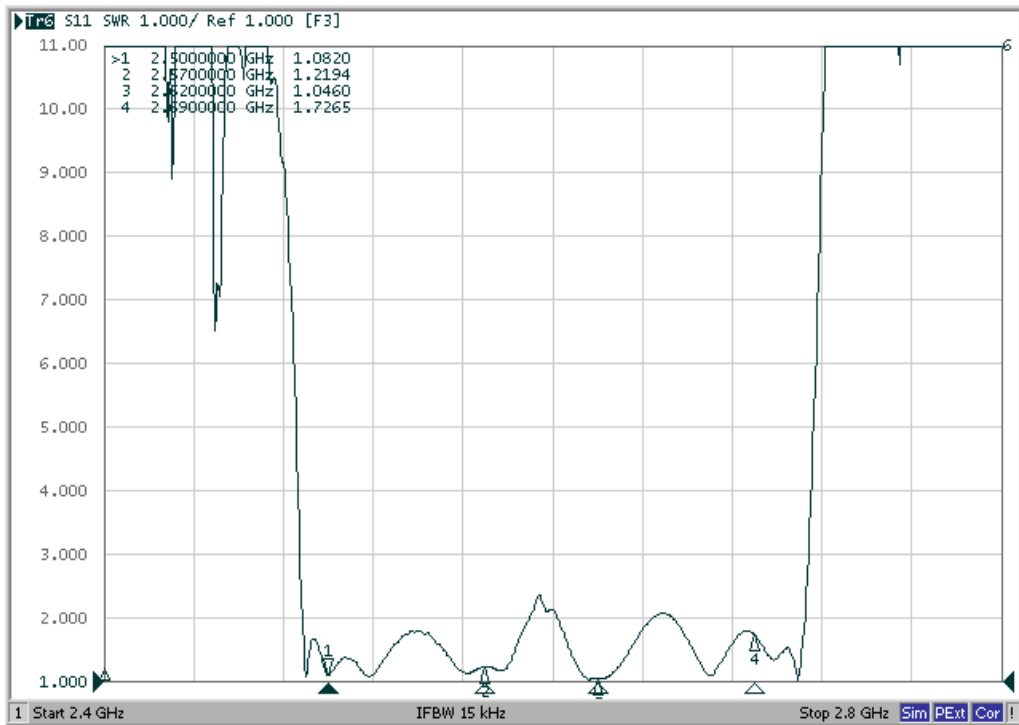


Smith Chart (Rx Port)

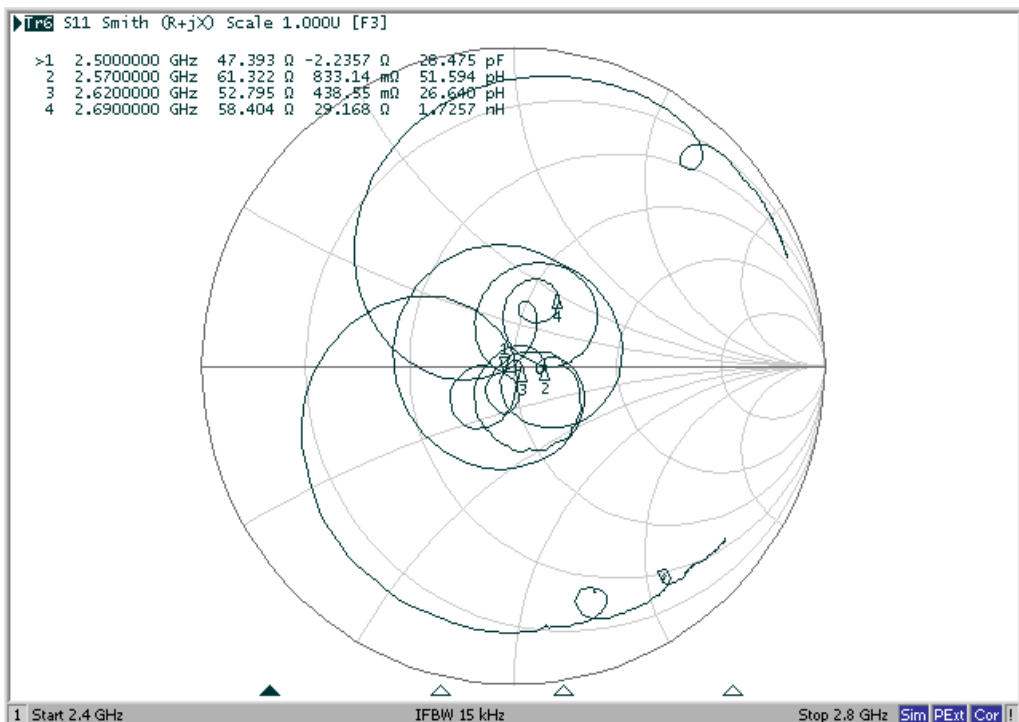




VSWR (ANT Port)



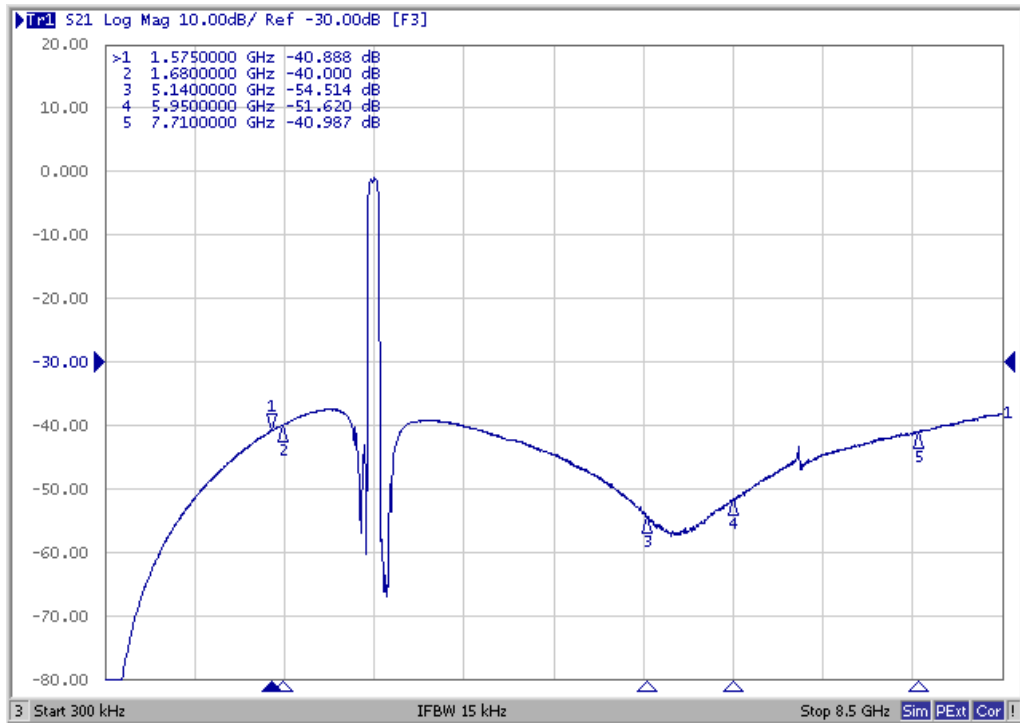
Smith Chart (ANT Port)





Wide Span

Tx



Rx

