

TS5USBC412: S-parameter Model

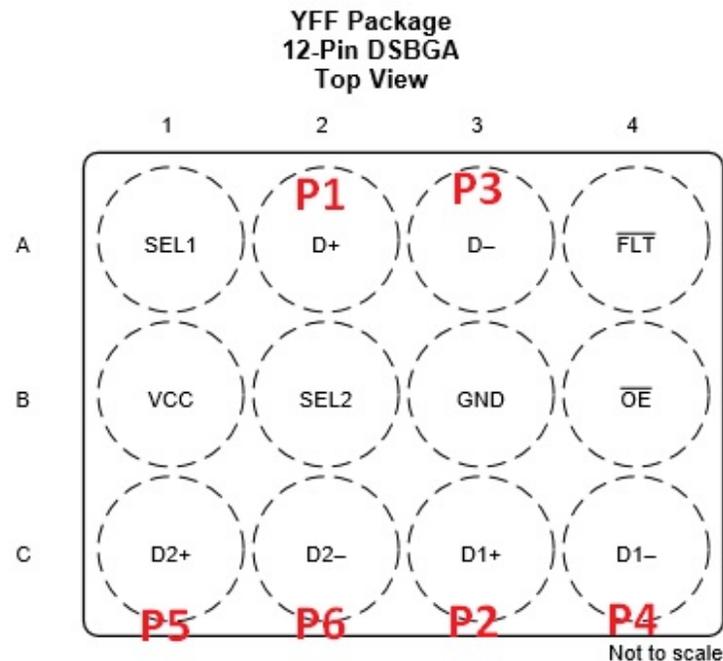
High-Speed USB 2.0 1:2 Mux/Demux Switch with OVP

Setup Notes:

- Bench board traces have been de-embedded at the VNA (Ag N5230A)
- Using RF power of -10dBm
- VNA start freq: 300 kHz, stop freq: 2.0 GHz, IF BW:1kHz
- Six measurements were taken and combined into a single s6p file.
 - Port order: (1,3,5,2,4,6)
- Two files provided:
 - SEL1 = SEL2 = H: 412_SEL1-H_SEL2-H.s6p
 - SEL1 = SEL2 = L: 412_SEL1-L_SEL2-L.s6p

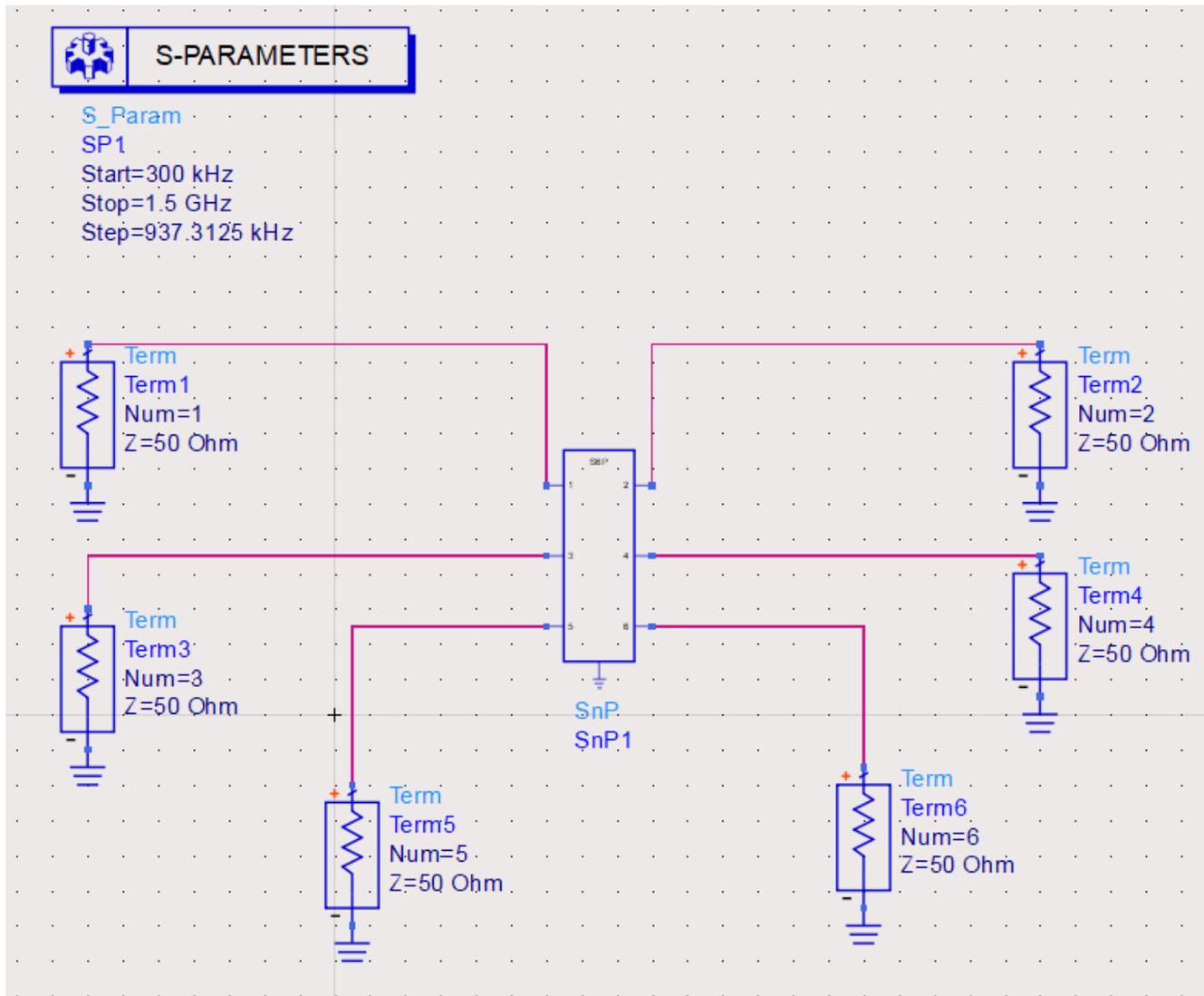
TS5USBC412 s6p test setup:

meas#	VNA port#	DUT port#		DUT 221E		DUT port#	VNA port#
1	1	1	D+		1D+	2	2
	3	3	D-		1D-	4	4
	term				2D+	5	term
	term				2D-	6	term
2	term	1	D+		1D+	2	term
	term	3	D-		1D-	4	term
	1				2D+	5	2
	3				2D-	6	4
3	1	1	D+		1D+	2	term
	3	3	D-		1D-	4	term
	term				2D+	5	2
	term				2D-	6	4
4	term	1	D+		1D+	2	2
	term	3	D-		1D-	4	4
	1				2D+	5	term
	3				2D-	6	term
5	1	1	D+		1D+	2	term
	3	3	D-		1D-	4	term
	2				2D+	5	term
	4				2D-	6	term
6	term	1	D+		1D+	2	1
	term	3	D-		1D-	4	3
	term				2D+	5	2
	term				2D-	6	4

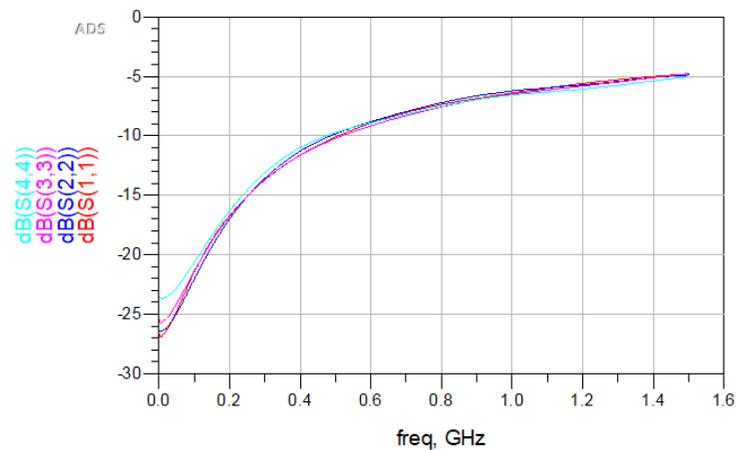
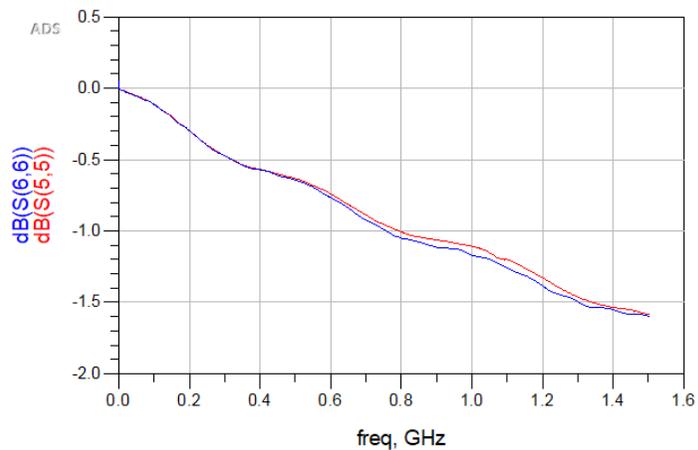
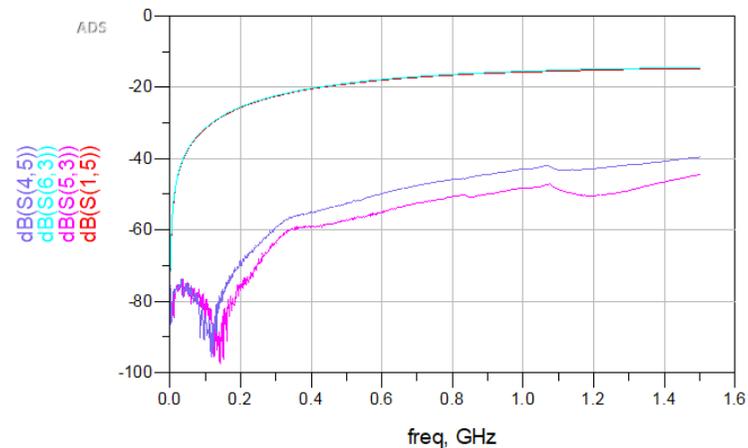
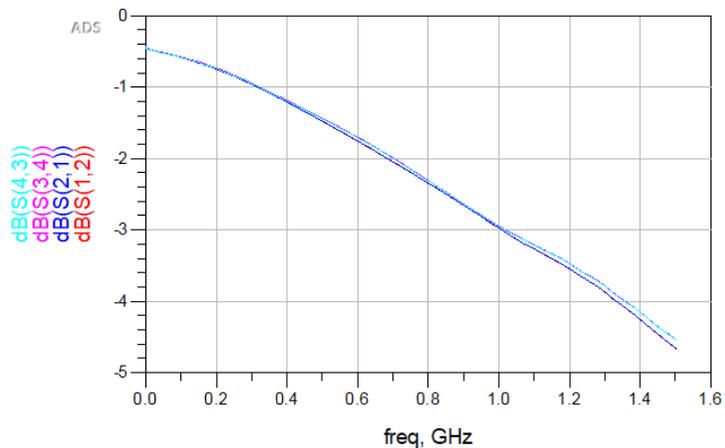


- Unused ports terminated with 50Ω.

ADS Test Bench



412_SEL1-L_SEL2-L.s6p Results



412_SEL1-H_SEL2-H.s6p Results

