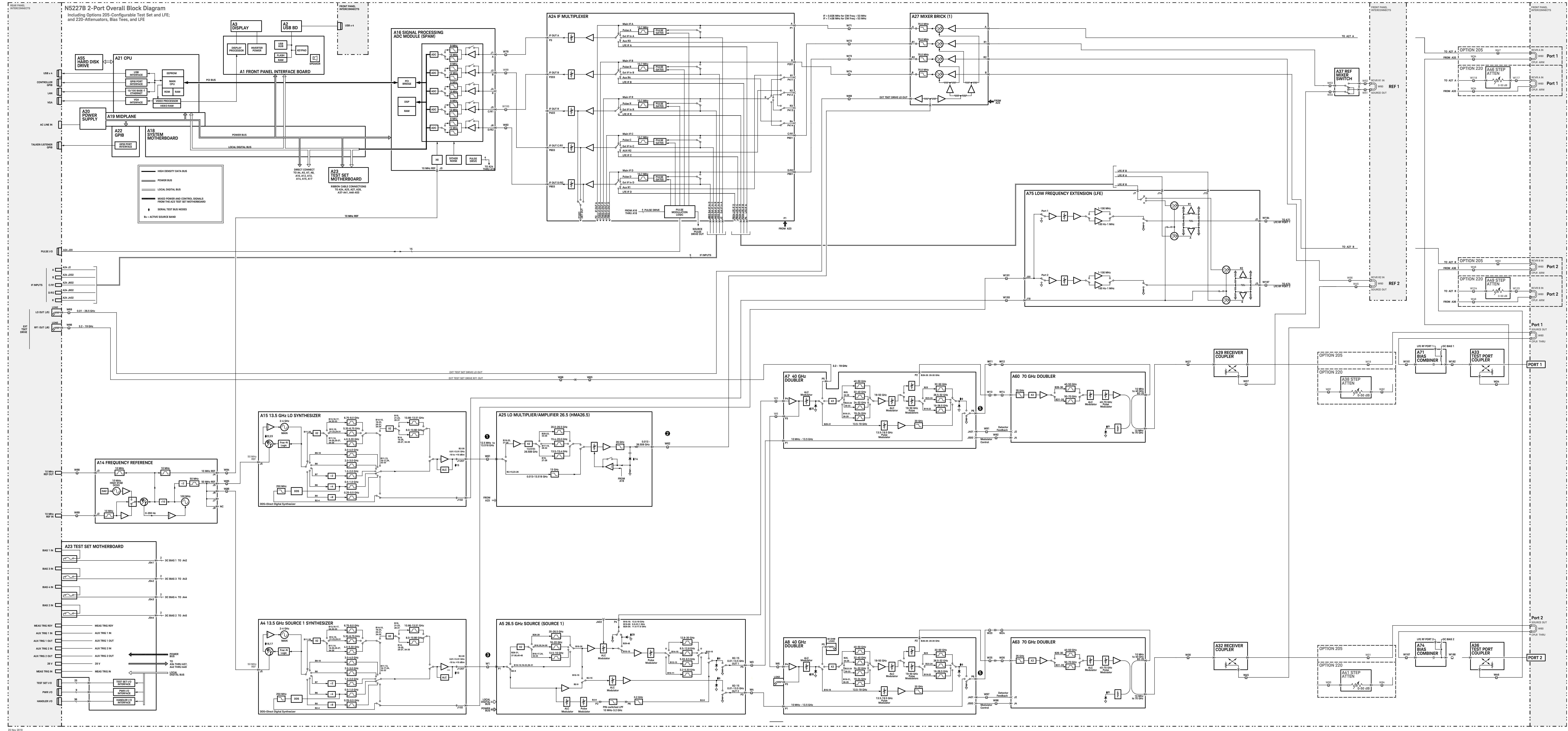


Band	Mixer Brick LO Number	1	2	3	4	5	6	7
Band	Mixer Brick LO Number	LO Synthesizer Frequency (GHz)	A25 HMA26.5 Frequency (GHz)	RF Synthesizer Frequency (GHz)	A5/A10 Source Frequency (GHz)	A7/A8/A12/A13 40 GHz Doubler Frequency (GHz)	A60/A61/A62/A63 70 GHz Doubler Frequency (GHz)	
1	1	0.01083 to 0.05383	0.01083 to 0.05383	0.010 to 0.053	0.010 to 0.053	0.010 to 0.053	0.010 to 0.053	
2	1	0.06044 to 0.18244	0.06044 to 0.18244	0.053 to 0.175	0.053 to 0.175	0.053 to 0.175	0.053 to 0.175	
3	1	0.18244 to 0.25744	0.18244 to 0.25744	0.175 to 0.250	0.175 to 0.250	0.175 to 0.250	0.175 to 0.250	
4	1	0.25744 to 0.50744	0.25744 to 0.50744	0.250 to 0.500	0.250 to 0.500	0.250 to 0.500	0.250 to 0.500	
5	1	0.50744 to 1.00744	0.50744 to 1.00744	0.500 to 1.000	0.500 to 1.000	0.500 to 1.000	0.500 to 1.000	
6	1	1.00744 to 2.00744	1.00744 to 2.00744	1.000 to 2.000	1.000 to 2.000	1.000 to 2.000	1.000 to 2.000	
7	1	2.00744 to 3.00744	2.00744 to 3.00744	2.000 to 3.000	2.000 to 3.000	2.000 to 3.000	2.000 to 3.000	
8	1	3.00744 to 4.00744	3.00744 to 4.00744	3.000 to 4.000	3.000 to 4.000	3.000 to 4.000	3.000 to 4.000	
9	1	4.00744 to 5.33944	4.00744 to 5.33944	4.000 to 5.332	4.000 to 5.332	4.000 to 5.332	4.000 to 5.332	
10	1	5.33944 to 6.75944	5.33944 to 6.75944	5.332 to 6.752	5.332 to 6.752	5.332 to 6.752	5.332 to 6.752	
11	1	6.75944 to 8.00744	6.75944 to 8.00744	6.752 to 8.000	6.752 to 8.000	6.752 to 8.000	6.752 to 8.000	
12	1	8.00744 to 10.67144	8.00744 to 10.67144	8.000 to 10.664	8.000 to 10.664	8.000 to 10.664	8.000 to 10.664	
13	1	10.67144 to 13.51744	10.67144 to 13.51744	10.664 to 13.510	10.664 to 13.510	10.664 to 13.510	10.664 to 13.510	
14	1	13.51744 to 15.40744	13.51744 to 15.40744	13.510 to 15.400	13.510 to 15.400	13.510 to 15.400	13.510 to 15.400	
15	1	15.40744 to 16.00744	15.40744 to 16.00744	15.400 to 16.000	15.400 to 16.000	15.400 to 16.000	15.400 to 16.000	
16	1	16.00744 to 18.00744	16.00744 to 18.00744	16.000 to 18.000	16.000 to 18.000	16.000 to 18.000	16.000 to 18.000	
17	1	18.00744 to 20.00744	18.00744 to 20.00744	18.000 to 20.000	18.000 to 20.000	18.000 to 20.000	18.000 to 20.000	
18	1	20.00744 to 21.33544	20.00744 to 21.33544	20.000 to 21.332	20.000 to 21.332	20.000 to 21.332	20.000 to 21.332	
19	1	21.33544 to 24.00744	21.33544 to 24.00744	21.332 to 24.000	21.332 to 24.000	21.332 to 24.000	21.332 to 24.000	
20	1	24.00744 to 26.50744	24.00744 to 26.50744	24.000 to 26.500	24.000 to 26.500	24.000 to 26.500	24.000 to 26.500	
21	1	26.50744 to 27.00744	26.50744 to 27.00744	26.500 to 27.000	26.500 to 27.000	26.500 to 27.000	26.500 to 27.000	
22	1	27.00744 to 27.00891	27.00744 to 27.00891	27.000 to 27.008	27.000 to 27.008	27.000 to 27.008	27.000 to 27.008	
23	1	27.00891 to 27.00901	27.00891 to 27.00901	27.008 to 27.009	27.008 to 27.009	27.008 to 27.009	27.008 to 27.009	
24	3	13.3358 to 13.3358	13.3358 to 13.3358	10.000 to 10.125	20.000 to 20.250	20.000 to 20.250	40.000 to 40.500	
25	3	6.7592 to 7.1106	13.5205 to 14.2211	10.125 to 10.954	20.250 to 21.508	20.250 to 21.508	40.500 to 42.656	
26	3	7.1106 to 7.7012	14.2211 to 15.4025	10.954 to 11.904	21.508 to 23.100	21.508 to 23.100	42.656 to 46.200	
27	3	7.7012 to 8.0012	15.4025 to 16.0025	11.904 to 12.000	23.100 to 24.000	23.100 to 24.000	46.200 to 48.000	
28	3	8.0012 to 8.3346	16.0025 to 16.6681	12.000 to 12.500	24.000 to 25.000	24.000 to 25.000	48.000 to 50.000	
29	3	8.3346 to 8.0028	16.6681 to 16.0078	12.500 to 13.504	25.000 to 27.008	25.000 to 27.008	50.000 to 54.016	
30	3	8.0028 to 10.6712	16.0078 to 20.0025	13.504 to 15.004	27.008 to 30.000	27.008 to 30.000	54.016 to 60.000	
31	3	10.6712 to 10.6679	20.0025 to 21.3358	15.000 to 16.000	30.000 to 32.000	30.000 to 32.000	60.000 to 64.000	
32	3	10.6679 to 11.1679	21.3358 to 22.3358	16.000 to 16.750	32.000 to 33.500	32.000 to 33.500	64.000 to 67.000	
33	3	11.1679 to 11.6679	22.3358 to 23.3358	16.750 to 17.500	33.500 to 35.000	33.500 to 35.000	67.000 to 70.000	

Test Node	Error Description	Assembly	Frequency Band
8	Unlabeled, Source 1, Out 1	A5	0.01 - 13.5 GHz
		A7	13.5 - 40 GHz
		A29	40 - 70 GHz
9	Unlabeled, Source 1, Out 2	A5	0.01 - 13.5 GHz
		A7	13.5 - 40 GHz
		A29	40 - 70 GHz
10	Unlabeled, Source 1 Synthesizer	A4	Full Range
11	Unlabeled, Source 2, Out 1	A10	0.01 - 13.5 GHz
		A12	13.5 - 40 GHz
		A20	40 - 70 GHz
12	Unlabeled, Source 2, Out 2	A10	0.01 - 13.5 GHz
		A12	13.5 - 40 GHz
		A20	40 - 70 GHz
13	Unlabeled, Source 2 Synthesizer	A4	Full Range
14	Unlabeled, LD Drive	A25	Full Range
15	Unlabeled, LD Synthesizer	A15	Full Range
16	Unlabeled, Source 1 Synthesizer, Integrator Low	A4	Full Range
17	Unlabeled, Source 1 Synthesizer, Integrator High	A4	Full Range
18	Unlabeled, Source 2 Synthesizer, Integrator Low	A17	Full Range
19	Unlabeled, Source 2 Synthesizer, Integrator High	A17	Full Range
20	Unlabeled, LD Synthesizer, Integrator Low	A15	Full Range
21	Unlabeled, LD Synthesizer, Integrator High	A15	Full Range
22	Unlabeled, Doubler 1, Prelevel	A7	13.5 - 70 GHz
23	Unlabeled, Doubler 2, Prelevel	A8	13.5 - 70 GHz
24	Unlabeled, Doubler 3, Prelevel	A12	13.5 - 70 GHz
25	Unlabeled, Doubler 4, Prelevel	A13	13.5 - 70 GHz
26	Unlabeled, Source 1, Prelevel	A5	13.5 - 70 GHz
27	Unlabeled, Source 2, Prelevel	A10	13.5 - 70 GHz



N5227B 2-Port Overall Block Diagram  
Including Options 205-Configurable Test Set and LFE,  
and 200-Attenuators, Bias Tees, and LFE

