

N5244A/45A 2-Port Overall Block Diagram (Includes Options 200-Standard; 219-Attenuators and Bias Tees; 224-Second Source, Combiner, and Source Bypass Switches; H85-Delete Bias Tees; H29-Noise Figure Measurements to 26.5 GHz) Service Guide: N5245-90001

Band	Mode	Brick LO Harmonic Number	1	2	3	4	5
			A15 Synthesizer Frequency (GHz)	A25 HMA26.5 Frequency (GHz)	A4A17 Synthesizer Frequency (GHz)	A5A10 Source Frequency (GHz)	A7A8A12A13 50 GHz Doubler Frequency (GHz)
0	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-
2	1	0.01254 to 0.01654	0.01254 to 0.01654	0.01254 to 0.01654	0.010 to 0.014	0.010 to 0.014	0.010 to 0.014
3	1	0.01654 to 0.02154	0.01654 to 0.02154	0.01654 to 0.02154	0.014 to 0.019	0.014 to 0.019	0.014 to 0.019
4	1	0.02154 to 0.02654	0.02154 to 0.02654	0.02154 to 0.02654	0.019 to 0.027	0.019 to 0.027	0.019 to 0.027
5	1	0.02654 to 0.04054	0.02654 to 0.04054	0.02654 to 0.04054	0.027 to 0.038	0.027 to 0.038	0.027 to 0.038
6	1	0.04054 to 0.05554	0.04054 to 0.05554	0.04054 to 0.05554	0.038 to 0.053	0.038 to 0.053	0.038 to 0.053
7	1	0.05554 to 0.08261	0.05554 to 0.08261	0.05554 to 0.08261	0.053 to 0.075	0.053 to 0.075	0.053 to 0.075
8	1	0.08261 to 0.11261	0.08261 to 0.11261	0.08261 to 0.11261	0.075 to 0.105	0.075 to 0.105	0.075 to 0.105
9	1	0.11261 to 0.15361	0.11261 to 0.15361	0.11261 to 0.15361	0.105 to 0.146	0.105 to 0.146	0.105 to 0.146
10	1	0.15361 to 0.21261	0.15361 to 0.21261	0.15361 to 0.21261	0.146 to 0.205	0.146 to 0.205	0.146 to 0.205
11	1	0.21261 to 0.28761	0.21261 to 0.28761	0.21261 to 0.28761	0.205 to 0.250	0.205 to 0.250	0.205 to 0.250
12	1	0.28761 to 0.40361	0.28761 to 0.40361	0.28761 to 0.40361	0.250 to 0.396	0.250 to 0.396	0.250 to 0.396
13	1	0.40361 to 0.50761	0.40361 to 0.50761	0.40361 to 0.50761	0.396 to 0.500	0.396 to 0.500	0.396 to 0.500
14	1	0.50761 to 0.63561	0.50761 to 0.63561	0.50761 to 0.63561	0.500 to 0.628	0.500 to 0.628	0.500 to 0.628
15	1	0.63561 to 1.00761	0.63561 to 1.00761	0.63561 to 1.00761	0.628 to 1.000	0.628 to 1.000	0.628 to 1.000
16	1	1.00761 to 1.50761	1.00761 to 1.50761	1.00761 to 1.50761	1.000 to 1.500	1.000 to 1.500	1.000 to 1.500
17	1	1.50761 to 2.00761	1.50761 to 2.00761	1.50761 to 2.00761	1.500 to 2.000	1.500 to 2.000	1.500 to 2.000
18	1	2.00761 to 3.00761	2.00761 to 3.00761	2.00761 to 3.00761	2.000 to 3.000	2.000 to 3.000	2.000 to 3.000
19	1	3.00761 to 3.20761	3.00761 to 3.20761	3.00761 to 3.20761	3.000 to 3.200	3.000 to 3.200	3.000 to 3.200
20	1	3.20761 to 4.00761	3.20761 to 4.00761	3.20761 to 4.00761	3.200 to 4.000	3.200 to 4.000	3.200 to 4.000
21	1	4.00761 to 5.33961	4.00761 to 5.33961	4.00761 to 5.33961	4.000 to 5.332	4.000 to 5.332	4.000 to 5.332
22	1	5.33961 to 6.75961	5.33961 to 6.75961	5.33961 to 6.75961	5.332 to 6.752	5.332 to 6.752	5.332 to 6.752
23	1	6.75961 to 8.00761	6.75961 to 8.00761	6.75961 to 8.00761	6.752 to 8.000	6.752 to 8.000	6.752 to 8.000
24	1	8.00761 to 8.50761	8.00761 to 8.50761	8.00761 to 8.50761	8.000 to 8.500	8.000 to 8.500	8.000 to 8.500
25	1	8.50761 to 10.97161	8.50761 to 10.97161	8.50761 to 10.97161	8.500 to 10.964	8.500 to 10.964	8.500 to 10.964
26	1	10.97161 to 12.80761	10.97161 to 12.80761	10.97161 to 12.80761	10.964 to 12.800	10.964 to 12.800	10.964 to 12.800
27	1	12.80761 to 12.80761	12.00761 to 12.80761	12.00761 to 12.80761	12.000 to 12.800	12.000 to 12.800	12.000 to 12.800
28	1	12.80761 to 13.51761	12.80761 to 13.51761	12.80761 to 13.51761	12.800 to 13.510	12.800 to 13.510	12.800 to 13.510
29	1	6.75880 to 7.70380	13.51761 to 15.40761	6.755 to 7.700	13.510 to 15.400	13.510 to 15.400	13.510 to 15.400
30	1	7.70380 to 8.00380	15.40761 to 16.00761	7.700 to 8.000	15.400 to 16.000	15.400 to 16.000	15.400 to 16.000
31	1	8.00380 to 9.50380	16.00761 to 19.00761	8.000 to 9.500	16.000 to 19.000	16.000 to 19.000	16.000 to 19.000
32	1	9.50380 to 10.00380	19.00761 to 20.00761	9.500 to 10.000	19.000 to 20.000	19.000 to 20.000	19.000 to 20.000
33	1	10.00380 to 10.66781	20.00761 to 21.33561	10.000 to 10.664	20.000 to 10.664	20.000 to 10.664	20.000 to 10.664
34	1	10.66781 to 12.00381	21.33561 to 24.00761	10.664 to 12.000	10.664 to 12.000	10.664 to 12.000	10.664 to 12.000
35	1	12.00381 to 13.25381	24.00761 to 26.00761	12.000 to 13.250	12.000 to 13.250	12.000 to 13.250	12.000 to 13.250
36	3	8.53561 to 9.00520	8.53561 to 9.00520	8.53561 to 9.00520	13.250 to 13.504	26.500 to 27.008	26.500 to 27.008
37	3	9.00520 to 10.66920	9.00520 to 10.66920	9.00520 to 10.66920	6.752 to 8.000	13.504 to 16.000	27.008 to 32.000
38	3	10.66920 to 12.16920	10.66920 to 12.16920	8.000 to 8.125	16.000 to 18.250	32.000 to 36.500	
39	3	12.16920 to 13.50254	12.16920 to 13.50254	9.125 to 10.125	18.250 to 20.250	36.500 to 40.500	
40	3	6.75127 to 7.11060	13.50254 to 14.21210	10.125 to 10.664	20.250 to 21.328	40.500 to 42.656	
41	3	7.11060 to 7.25127	14.21210 to 14.50254	10.664 to 10.875	21.328 to 21.750	42.656 to 43.500	
42	3	7.25127 to 7.70127	14.50254 to 15.40254	10.875 to 11.550	21.750 to 23.100	43.500 to 46.200	
43	3	7.70127 to 8.00127	15.40254 to 16.00254	11.550 to 12.000	23.100 to 24.000	46.200 to 48.000	
44	3	8.00127 to 8.33460	16.00254 to 16.66920	12.000 to 12.500	24.000 to 25.000	48.000 to 50.000	

Test Node	Error Description	Assembly	Frequency Band
8	Unleveled, Source 1, Out 1	A5	0.01 - 13.5 GHz
9	Unleveled, Source 1, Out 2	A5	0.01 - 13.5 GHz
10	Unleveled, Source 1 Synthesizer	A4	Full Range
11	Unleveled, Source 2, Out 1	A10	0.01 - 13.5 GHz
12	Unleveled, Source 2, Out 2	A10	0.01 - 13.5 GHz
13	Unleveled, Source 3 Synthesizer	A17	Full Range
14	Unleveled, LO Drive	A25	Full Range
15	Unleveled, LO Synthesizer	A15	Full Range
16	Unleveled, Source 1 Synthesizer, Integrator Low	A4	Full Range
17	Unleveled, Source 1 Synthesizer, Integrator High	A4	Full Range
18	Unleveled, Source 2 Synthesizer, Integrator Low	A17	Full Range
20	Unleveled, Source 2 Synthesizer, Integrator High	A17	Full Range
22	Unleveled, LO Synthesizer, Integrator Low	A15	Full Range
23	Unleveled, LO Synthesizer, Integrator High	A15	Full Range
25	Unleveled, Doubler 1 Plevelvel	A7	13.5 - 50 GHz
26	Unleveled, Doubler 2 Plevelvel	A8	13.5 - 50 GHz
27	Unleveled, Doubler 3 Plevelvel	A12	13.5 - 50 GHz
28	Unleveled, Doubler 4 Plevelvel	A13	13.5 - 50 GHz
29	Unleveled, Source 1, P4	A5	13.5 - 50 GHz
30	Unleveled, Source 2, P4	A10	13.5 - 50 GHz

