

Band	Mixer Block LO Harmonic Number	1	2	3	4	5
		A15 Synthesizer Frequency (GHz)	A25 HMA26.5 Frequency (GHz)	A4A17 Synthesizer Frequency (GHz)	ASA10 Source Frequency (GHz)	ATA80A12313 50 GHz Doubler Frequency (GHz)
0	-	-	-	-	-	-
1	-	-	-	-	-	-
2	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
3	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
4	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
5	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
6	1	0.50744 to 1.0074	0.50744 to 1.0074	0.500 to 1.000	0.500 to 1.000	0.500 to 1.000
7	1	1.0074 to 2.0074	1.0074 to 2.0074	1.000 to 2.000	1.000 to 2.000	1.000 to 2.000
8	1	2.0074 to 3.0074	2.0074 to 3.0074	2.000 to 3.000	2.000 to 3.000	2.000 to 3.000
9	1	3.0074 to 3.2074	3.0074 to 3.2074	3.000 to 3.200	3.000 to 3.200	3.000 to 3.200
10	1	3.2074 to 4.0074	3.2074 to 4.0074	3.200 to 4.000	3.200 to 4.000	3.200 to 4.000
11	1	4.0074 to 5.3394	4.0074 to 5.3394	4.000 to 5.332	4.000 to 5.332	4.000 to 5.332
12	1	5.3394 to 6.7594	5.3394 to 6.7594	5.332 to 6.752	5.332 to 6.752	5.332 to 6.752
13	1	6.7594 to 8.0074	6.7594 to 8.0074	6.752 to 8.000	6.752 to 8.000	6.752 to 8.000
14	1	8.0074 to 10.6714	8.0074 to 10.6714	8.000 to 10.664	8.000 to 10.664	8.000 to 10.664
15	1	10.6714 to 13.5174	10.6714 to 13.5174	10.664 to 13.510	10.664 to 13.510	10.664 to 13.510
16	1	6.7587 to 7.7037	13.5174 to 15.4074	6.755 to 7.700	13.510 to 15.400	13.510 to 15.400
17	1	7.7037 to 8.0037	15.4074 to 16.0074	7.700 to 8.000	15.400 to 16.000	15.400 to 16.000
18	1	8.0037 to 9.5037	16.0074 to 19.0074	8.000 to 9.500	16.000 to 19.000	16.000 to 19.000
19	1	9.5037 to 10.0037	19.0074 to 20.0074	9.500 to 10.000	19.000 to 20.000	19.000 to 20.000
20	1	10.0037 to 10.6677	20.0074 to 21.3354	10.000 to 10.664	10.000 to 10.664	20.000 to 21.328
21	1	10.6677 to 12.0037	21.3354 to 24.0074	10.664 to 12.000	10.664 to 12.000	21.328 to 24.000
22	1	12.0037 to 13.2537	24.0074 to 26.5074	12.000 to 13.250	12.000 to 13.250	24.000 to 26.500
23	3	8.8358 to 9.0051	8.8358 to 9.0051	8.8358 to 9.0051	13.250 to 13.504	26.500 to 27.008
24	3	9.0051 to 10.6691	9.0051 to 10.6691	6.752 to 8.000	13.504 to 16.000	27.008 to 32.000
25	3	10.6691 to 13.5025	10.6691 to 13.5025	8.000 to 10.125	16.000 to 20.250	32.000 to 40.500
26	3	6.7512 to 7.1106	13.5025 to 14.2211	10.125 to 10.864	20.250 to 21.328	40.500 to 42.656
27	3	7.1106 to 7.2512	14.2211 to 14.5025	10.864 to 10.875	21.328 to 21.750	42.656 to 43.500
28	3	7.2512 to 7.7012	14.5025 to 15.4025	10.875 to 11.550	21.750 to 23.100	43.500 to 46.200
29	3	7.7012 to 8.0012	15.4025 to 16.0025	11.550 to 12.000	23.100 to 24.000	46.200 to 48.000
30	3	8.0012 to 8.3346	16.0025 to 16.6691	12.000 to 12.500	24.000 to 25.000	48.000 to 50.000

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

N5224A/25A 4-Port Overall Block Diagram
 (Includes Options 400-Standard; 401-Configurable
 Test Set; 417-Attenuators; and 419-Bias Tees)
 Service Guide: N5225-90001

