

Frequency Mixer

ZX05-17H

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=50MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	60.1	10.94	10.43	10.14
110.4	160.4	8.21	7.81	7.67
210.6	260.6	8.04	7.67	7.55
310.9	360.9	7.89	7.59	7.46
411.1	461.1	7.92	7.65	7.48
511.4	561.4	7.94	7.61	7.42
611.6	661.6	7.98	7.64	7.46
711.9	761.9	7.92	7.61	7.47
812.1	862.1	7.98	7.64	7.45
912.4	962.4	8.04	7.68	7.54
1012.6	1062.6	7.93	7.63	7.47
1112.9	1162.9	8.03	7.77	7.64
1213.1	1263.1	7.96	7.67	7.52
1313.4	1363.4	7.97	7.65	7.50
1413.6	1463.6	7.90	7.62	7.49
1513.9	1563.9	7.93	7.63	7.50
1614.1	1664.1	8.00	7.66	7.56
1714.4	1764.4	8.15	7.80	7.67
1814.6	1864.6	8.52	8.06	7.86
1914.9	1964.9	9.07	8.48	8.18
2015.1	2065.1	9.72	8.95	8.50
2115.4	2165.4	10.45	9.44	8.85
2215.6	2265.6	10.76	9.73	9.11
2315.9	2365.9	10.23	9.43	8.96
2416.1	2466.1	10.19	9.36	8.93
2516.4	2566.4	10.33	9.41	8.94
2616.6	2666.6	10.45	9.53	9.00
2716.9	2766.9	10.31	9.52	8.99
2817.1	2867.1	10.12	9.37	8.95
2917.4	2967.4	10.01	9.34	9.00
3017.6	3067.6	9.76	9.15	8.87
3117.9	3167.9	9.71	9.04	8.73
3238.2	3288.2	9.61	9.00	8.71
3338.4	3388.4	9.67	9.08	8.77
3458.7	3508.7	9.71	9.20	8.91
3559.0	3609.0	9.73	9.27	9.02
3679.3	3729.3	9.88	9.42	9.18
3779.5	3829.5	10.09	9.64	9.40
3899.8	3949.8	10.37	9.91	9.66
4000.1	4050.1	10.66	10.15	9.93

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	60.1	18.01	20.03	22.34
110.4	160.4	19.70	20.06	23.41
210.6	260.6	18.07	20.67	24.37
310.9	360.9	18.26	22.23	27.84
411.1	461.1	20.02	24.51	30.73
511.4	561.4	21.77	25.79	28.27
611.6	661.6	22.59	24.57	28.10
711.9	761.9	24.71	30.58	30.02
812.1	862.1	25.62	29.84	29.60
912.4	962.4	28.27	32.66	29.77
1012.6	1062.6	20.93	26.87	23.99
1112.9	1162.9	21.11	27.49	23.16
1213.1	1263.1	26.37	28.24	27.12
1313.4	1363.4	27.78	29.05	28.46
1413.6	1463.6	25.38	32.29	32.58
1513.9	1563.9	24.50	29.72	30.95
1614.1	1664.1	23.85	26.57	30.40
1714.4	1764.4	21.74	24.65	28.25
1814.6	1864.6	20.46	22.97	26.27
1914.9	1964.9	19.09	20.95	23.11
2015.1	2065.1	18.41	20.06	22.58
2115.4	2165.4	18.31	20.65	22.64
2215.6	2265.6	20.72	22.73	24.73
2315.9	2365.9	27.11	28.22	32.19
2416.1	2466.1	28.79	31.97	33.06
2516.4	2566.4	30.61	29.55	29.69
2616.6	2666.6	29.78	27.95	27.61
2716.9	2766.9	28.14	27.30	26.90
2817.1	2867.1	25.73	25.88	25.65
2917.4	2967.4	24.31	24.66	24.98
3017.6	3067.6	23.07	24.01	24.53
3117.9	3167.9	24.45	23.46	23.92
3238.2	3288.2	23.64	23.26	23.72
3338.4	3388.4	23.00	23.21	23.16
3458.7	3508.7	21.88	22.38	22.88
3559.0	3609.0	21.10	22.01	22.34
3679.3	3729.3	20.69	21.79	22.40
3779.5	3829.5	21.25	22.47	23.16
3899.8	3949.8	21.81	22.99	24.32
4000.1	4050.1	23.07	23.98	25.42

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	1.09	0.67	0.38
110.4	140.4	1.10	0.55	0.26
210.6	240.6	1.16	0.48	0.25
310.9	340.9	1.07	0.47	0.24
411.1	441.1	1.08	0.43	0.17
511.4	541.4	1.04	0.52	0.27
611.6	641.6	1.09	0.47	0.28
711.9	741.9	1.18	0.57	0.29
812.1	842.1	0.99	0.47	0.30
912.4	942.4	1.02	0.48	0.36
1012.6	1042.6	1.11	0.55	0.44
1112.9	1142.9	1.10	0.48	0.36
1213.1	1243.1	1.02	0.47	0.35
1313.4	1343.4	1.09	0.52	0.40
1413.6	1443.6	1.16	0.58	0.44
1513.9	1543.9	1.17	0.67	0.51
1614.1	1644.1	1.21	0.73	0.54
1714.4	1744.4	1.39	0.91	0.63
1814.6	1844.6	1.41	1.03	0.75
1914.9	1944.9	1.27	0.97	0.74
2015.1	2045.1	0.99	0.81	0.69
2115.4	2145.4	0.44	0.52	0.49
2215.6	2245.6	0.14	0.28	0.32
2315.9	2345.9	0.38	0.36	0.34
2416.1	2446.1	0.57	0.38	0.35
2516.4	2546.4	0.41	0.27	0.26
2616.6	2646.6	0.22	0.26	0.21
2716.9	2746.9	0.19	0.13	0.20
2817.1	2847.1	0.20	0.15	0.15
2917.4	2947.4	0.28	0.14	0.17
3017.6	3047.6	0.32	0.21	0.16
3117.9	3147.9	0.35	0.28	0.21
3238.2	3268.2	0.43	0.34	0.29
3338.4	3368.4	0.54	0.33	0.30
3458.7	3488.7	0.69	0.41	0.34
3559.0	3589.0	0.70	0.39	0.31
3679.3	3709.3	0.80	0.46	0.30
3779.5	3809.5	0.89	0.48	0.35
3899.8	3929.8	0.93	0.47	0.27
4000.1	4030.1	0.96	0.51	0.32

REV. X2

ZX05-17H

100818

Page 1 of 5



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Frequency Mixer

ZX05-17H

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=850.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=100.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1700.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
650.0	200.1	6.89	50.0	150.1	7.88	1500.0	200.1	7.74
634.6	215.5	6.83	90.8	190.9	7.73	1459.7	240.4	7.66
619.2	230.9	6.87	131.7	231.8	7.62	1419.4	280.7	7.71
603.8	246.3	6.86	172.5	272.6	7.54	1379.2	320.9	7.67
588.5	261.6	6.86	213.4	313.5	7.48	1338.9	361.2	7.70
573.1	277.0	6.87	254.2	354.3	7.44	1298.6	401.5	7.67
557.7	292.4	6.85	295.1	395.2	7.40	1258.3	441.8	7.70
542.3	307.8	6.86	335.9	436.0	7.39	1218.1	482.0	7.74
526.9	323.2	6.81	376.8	476.9	7.37	1177.8	522.3	7.75
511.5	338.6	6.85	417.6	517.7	7.35	1137.5	562.6	7.77
496.2	353.9	6.82	458.5	558.6	7.34	1097.2	602.9	7.71
480.8	369.3	6.85	499.3	599.4	7.32	1056.9	643.2	7.62
465.4	384.7	6.81	540.1	640.2	7.26	1016.7	683.4	7.63
450.0	400.1	6.81	581.0	681.1	7.26	976.4	723.7	7.57
434.6	415.5	6.74	621.8	721.9	7.32	936.1	764.0	7.55
419.2	430.9	6.83	662.7	762.8	7.26	895.8	804.3	7.50
403.8	446.3	6.83	703.5	803.6	7.26	855.6	844.5	7.47
388.5	461.6	6.82	744.4	844.5	7.29	815.3	884.8	7.53
373.1	477.0	6.87	785.2	885.3	7.26	775.0	925.1	7.51
357.7	492.4	6.86	826.1	926.2	7.25	734.7	965.4	7.55
342.3	507.8	6.90	866.9	967.0	7.25	694.4	1005.7	7.47
326.9	523.2	6.92	907.7	1007.8	7.21	654.2	1045.9	7.44
311.5	538.6	6.93	948.6	1048.7	7.17	613.9	1086.2	7.43
296.2	553.9	6.96	989.4	1089.5	7.19	573.6	1126.5	7.39
280.8	569.3	6.95	1030.3	1130.4	7.22	533.3	1166.8	7.39
265.4	584.7	7.00	1071.1	1171.2	7.19	493.1	1207.0	7.34
250.0	600.1	6.97	1112.0	1212.1	7.17	452.8	1247.3	7.32
234.6	615.5	7.03	1132.4	1232.5	7.15	412.5	1287.6	7.35
219.2	630.9	7.00	1173.2	1273.3	7.15	372.2	1327.9	7.31
203.8	646.3	7.05	1193.7	1293.8	7.13	352.1	1348.0	7.34
188.5	661.6	7.08	1234.5	1334.6	7.07	311.8	1388.3	7.37
173.1	677.0	7.14	1254.9	1355.0	7.04	291.7	1408.4	7.37
157.7	692.4	7.19	1295.8	1395.9	6.97	251.4	1448.7	7.40
142.3	707.8	7.24	1316.2	1416.3	6.98	231.3	1468.9	7.44
126.9	723.2	7.32	1357.0	1457.1	6.92	191.0	1509.1	7.48
111.5	738.6	7.37	1377.5	1477.6	6.95	170.8	1529.3	7.56
96.2	753.9	7.47	1418.3	1518.4	6.93	130.6	1569.5	7.65
80.8	769.3	7.49	1438.7	1538.8	6.92	110.4	1589.7	7.69
65.4	784.7	7.54	1479.6	1579.7	6.96	70.1	1630.0	7.85
50.0	800.1	7.64	1500.0	1600.1	6.97	50.0	1650.1	7.91

REV. X2
ZX05-17H
100818
Page 2 of 5

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
10.1	20.76	21.19	22.52	19.68	20.30	21.53
110.4	27.65	30.22	32.49	27.68	30.30	32.59
210.6	28.88	31.55	34.42	29.61	32.35	35.13
310.9	30.10	33.16	36.17	30.90	33.97	36.37
411.1	30.98	34.60	36.83	32.82	35.95	36.57
511.4	33.52	36.52	36.70	34.93	36.20	35.03
611.6	34.63	36.91	35.77	36.35	35.61	33.62
711.9	36.45	36.77	34.65	36.72	34.47	32.34
812.1	38.38	36.55	33.86	36.02	33.21	31.17
912.4	39.20	35.70	33.20	34.49	32.04	30.44
1012.6	39.17	35.29	33.40	33.13	31.19	29.94
1112.9	35.60	33.31	31.79	31.03	29.55	28.41
1213.1	35.39	33.73	31.88	30.66	29.53	28.19
1313.4	34.86	32.27	30.69	30.35	28.79	27.75
1413.6	34.43	31.90	30.26	29.99	28.56	27.52
1513.9	33.38	31.23	29.73	29.69	28.53	27.52
1614.1	32.75	31.16	29.88	29.84	29.14	28.35
1714.4	32.61	31.18	30.00	30.00	29.72	29.30
1814.6	32.73	31.51	30.85	30.69	30.43	30.42
1914.9	33.69	32.56	31.74	31.32	31.29	31.44
2015.1	35.27	34.15	33.12	31.60	31.51	31.66
2115.4	37.28	36.02	35.00	31.62	31.35	31.66
2215.6	39.04	38.54	37.27	31.53	31.53	31.88
2315.9	41.95	41.48	40.26	31.57	31.70	32.32
2416.1	42.36	42.33	41.45	32.48	32.95	33.78
2516.4	36.78	37.60	38.19	32.87	33.55	34.60
2616.6	35.00	35.67	36.24	32.81	34.17	35.61
2716.9	35.00	35.72	35.87	33.24	34.91	36.81
2817.1	34.34	35.12	35.68	34.13	36.02	37.94
2917.4	33.75	34.24	34.99	34.91	37.03	39.00
3017.6	32.93	33.53	34.14	35.77	38.42	40.55
3117.9	32.05	32.70	33.36	35.98	38.86	41.47
3238.2	30.68	31.48	32.17	36.70	39.99	42.78
3338.4	29.86	30.71	31.52	36.77	40.08	42.92
3458.7	28.88	29.99	30.91	36.44	39.56	42.08
3559.0	28.44	29.52	30.45	36.64	39.57	41.37
3679.3	28.01	29.42	30.50	36.29	39.99	42.55
3779.5	27.37	29.13	30.54	36.45	40.32	43.46
3899.8	27.41	29.16	30.51	35.88	38.53	40.51
4000.1	27.59	29.45	31.02	35.57	37.56	39.28

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	16.82	19.65	21.47
110.4	140.4	28.23	29.78	30.73
210.6	240.6	30.04	31.57	32.82
310.9	340.9	31.13	31.67	32.34
411.1	441.1	31.96	32.63	32.96
511.4	541.4	33.98	33.96	34.21
611.6	641.6	36.31	36.58	36.97
711.9	741.9	35.15	34.26	33.94
812.1	842.1	38.51	37.08	35.45
912.4	942.4	35.02	32.90	31.79
1012.6	1042.6	34.42	32.85	31.84
1112.9	1142.9	33.96	32.03	30.46
1213.1	1243.1	36.54	33.03	28.16
1313.4	1343.4	34.19	32.06	29.47
1413.6	1443.6	31.45	30.57	30.02
1513.9	1543.9	32.27	32.35	32.91
1614.1	1644.1	34.24	35.01	35.37
1714.4	1744.4	33.78	31.78	29.57
1814.6	1844.6	29.58	27.51	26.13
1914.9	1944.9	25.30	24.36	23.70
2015.1	2045.1	23.26	22.79	22.61
2115.4	2145.4	22.66	22.42	22.41
2215.6	2245.6	22.75	22.57	22.49
2315.9	2345.9	22.98	22.93	22.77
2416.1	2446.1	22.72	22.74	22.68
2516.4	2546.4	22.73	22.74	22.66
2616.6	2646.6	22.45	22.56	22.58
2716.9	2746.9	22.30	22.48	22.59
2817.1	2847.1	22.07	22.30	22.47
2917.4	2947.4	21.91	22.23	22.48
3017.6	3047.6	22.06	22.38	22.62
3117.9	3147.9	22.09	22.39	22.61
3238.2	3268.2	21.91	21.94	21.98
3338.4	3368.4	21.74	21.52	21.40
3458.7	3488.7	20.97	20.50	20.30
3559.0	3589.0	20.00	19.61	19.47
3679.3	3709.3	18.89	18.65	18.77
3779.5	3809.5	18.33	18.25	18.66
3899.8	3929.8	18.32	18.28	18.73
4000.1	4030.1	18.38	18.76	19.28

Frequency Mixer

ZX05-17H

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1700.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	4.78	4.60	4.66	10.1	2.25	3.08	3.99	50.1	1.54	1.59	1.62
110.4	140.4	1.25	1.39	1.45	110.4	1.29	1.68	2.32	90.4	1.27	1.31	1.36
210.6	240.6	1.17	1.27	1.31	210.6	1.16	1.60	2.28	130.7	1.23	1.27	1.32
310.9	340.9	1.13	1.20	1.26	310.9	1.12	1.60	2.28	170.9	1.16	1.24	1.32
411.1	441.1	1.17	1.23	1.29	411.1	1.06	1.61	2.29	211.2	1.11	1.15	1.21
511.4	541.4	1.24	1.28	1.34	511.4	1.08	1.63	2.31	251.5	1.13	1.20	1.27
611.6	641.6	1.30	1.35	1.41	611.6	1.08	1.65	2.34	291.8	1.04	1.12	1.21
711.9	741.9	1.35	1.38	1.43	711.9	1.10	1.68	2.37	332.0	1.06	1.09	1.17
812.1	842.1	1.42	1.43	1.48	812.1	1.14	1.72	2.40	372.3	1.01	1.11	1.20
912.4	942.4	1.49	1.51	1.55	912.4	1.17	1.75	2.44	412.6	1.07	1.07	1.15
1012.6	1042.6	1.52	1.55	1.60	1012.6	1.19	1.77	2.47	452.9	1.06	1.12	1.21
1112.9	1142.9	1.54	1.57	1.62	1112.9	1.25	1.79	2.47	493.2	1.13	1.13	1.20
1213.1	1243.1	1.58	1.59	1.65	1213.1	1.29	1.80	2.47	533.4	1.12	1.12	1.19
1313.4	1343.4	1.64	1.64	1.66	1313.4	1.35	1.82	2.47	573.7	1.18	1.18	1.24
1413.6	1443.6	1.69	1.67	1.68	1413.6	1.43	1.84	2.48	614.0	1.20	1.17	1.21
1513.9	1543.9	1.71	1.67	1.66	1513.9	1.53	1.89	2.51	654.3	1.23	1.21	1.26
1614.1	1644.1	1.68	1.61	1.60	1614.1	1.63	1.94	2.53	694.5	1.30	1.25	1.27
1714.4	1744.4	1.65	1.55	1.52	1714.4	1.70	1.99	2.57	734.8	1.30	1.26	1.28
1814.6	1844.6	1.67	1.56	1.51	1814.6	1.77	2.03	2.60	775.1	1.37	1.33	1.34
1914.9	1944.9	1.81	1.68	1.61	1914.9	1.83	2.05	2.61	815.4	1.38	1.32	1.33
2015.1	2045.1	2.05	1.92	1.84	2015.1	1.84	2.04	2.59	855.7	1.43	1.38	1.39
2115.4	2145.4	2.36	2.21	2.12	2115.4	1.82	2.00	2.55	895.9	1.47	1.40	1.39
2215.6	2245.6	2.56	2.42	2.32	2215.6	1.75	1.90	2.45	936.2	1.49	1.41	1.41
2315.9	2345.9	2.62	2.48	2.39	2315.9	1.70	1.82	2.36	976.5	1.53	1.44	1.42
2416.1	2446.1	2.67	2.54	2.46	2416.1	1.73	1.78	2.29	1016.8	1.53	1.43	1.42
2516.4	2546.4	2.80	2.66	2.56	2516.4	1.78	1.76	2.22	1057.0	1.62	1.52	1.49
2616.6	2646.6	2.84	2.68	2.57	2616.6	1.81	1.72	2.13	1097.3	1.61	1.49	1.45
2716.9	2746.9	2.87	2.72	2.57	2716.9	1.77	1.66	2.04	1137.6	1.64	1.53	1.49
2817.1	2847.1	2.89	2.74	2.61	2817.1	1.67	1.58	1.97	1177.9	1.70	1.55	1.49
2917.4	2947.4	2.84	2.71	2.59	2917.4	1.56	1.50	1.91	1198.0	1.65	1.51	1.46
3017.6	3047.6	2.71	2.56	2.43	3017.6	1.44	1.43	1.88	1238.3	1.70	1.55	1.50
3117.9	3147.9	2.65	2.44	2.27	3117.9	1.34	1.44	1.90	1258.4	1.75	1.60	1.54
3238.2	3268.2	2.51	2.30	2.13	3238.2	1.22	1.47	1.96	1298.7	1.69	1.53	1.45
3338.4	3368.4	2.36	2.17	1.99	3338.4	1.16	1.54	2.07	1318.9	1.71	1.54	1.47
3458.7	3488.7	2.16	1.97	1.80	3458.7	1.20	1.70	2.29	1359.1	1.75	1.58	1.49
3559.0	3589.0	1.99	1.82	1.67	3559.0	1.32	1.88	2.52	1379.3	1.78	1.59	1.49
3679.3	3709.3	1.83	1.67	1.54	3679.3	1.55	2.18	2.90	1419.5	1.71	1.52	1.43
3779.5	3809.5	1.68	1.55	1.46	3779.5	1.73	2.40	3.18	1439.7	1.75	1.56	1.47
3899.8	3929.8	1.59	1.51	1.47	3899.8	2.01	2.71	3.52	1480.0	1.79	1.58	1.47
4000.1	4030.1	1.58	1.54	1.54	4000.1	2.29	2.99	3.82	1500.1	1.76	1.55	1.43

REV. X2

ZX05-17H

100818

Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	10	27	21	26	41	31	38	37	52
1	-	20	+0	34	13	49	19	43	41	39	32	52
2	88	44	45	47	51	47	52	39	63	52	56	52
3	>100	67	57	85	52	66	46	62	42	68	51	64
4	>100	73	72	87	76	74	72	72	68	66	71	76
5	>100	90	73	84	77	80	74	77	72	80	73	80
6	>100	>91	>91	87	>91	88	91	90	>91	90	>91	84
7	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
8	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
9	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
10	>100	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 900.1 MHz; -1.00 dBm.
LO IN: 950.01 MHz; +17.00 dBm
IF OUT: 49.91 MHz; -8.54 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	21	46	42	42	53	41	56	45	66
1	-	20	+0	30	13	53	29	50	51	59	49	66
2	73	39	38	43	40	50	46	42	50	67	57	63
3	>100	49	38	51	40	50	38	54	34	59	53	56
4	>100	64	56	54	57	50	59	49	56	46	65	60
5	>100	60	53	62	48	72	45	63	43	67	41	67
6	>100	75	70	64	68	63	68	66	59	63	60	56
7	>100	71	72	78	66	70	59	64	57	62	54	62
8	>100	79	79	79	88	80	85	82	89	72	78	69
9	>100	84	94	80	85	72	79	74	73	70	70	67
10	>100	100	84	95	84	89	93	85	84	84	82	76
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 900.1 MHz; 9.00 dBm.
LO IN: 950.01 MHz; +17.00 dBm
IF OUT: 49.91 MHz; 1.25 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

REV. X2
ZX05-17H
100818
Page 5 of 5

