

Frequency Mixer

TFM-150+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	6.33	5.72	5.43
110.1	140.1	6.40	5.89	5.61
210.1	240.1	6.75	6.17	5.84
310.1	340.1	6.89	6.29	5.90
410.1	440.1	7.17	6.46	6.04
510.1	540.1	7.27	6.46	6.03
610.1	640.1	7.44	6.59	6.13
710.1	740.1	7.33	6.49	6.09
810.1	840.1	7.44	6.66	6.26
910.1	940.1	7.42	6.64	6.26
1010.1	1040.1	7.50	6.74	6.35
1110.1	1140.1	7.37	6.68	6.29
1210.1	1240.1	7.33	6.67	6.31
1310.1	1340.1	7.25	6.53	6.21
1410.1	1440.1	7.43	6.65	6.28
1510.1	1540.1	7.43	6.59	6.22
1610.1	1640.1	7.73	6.91	6.49
1710.1	1740.1	7.88	6.99	6.54
1810.1	1840.1	7.87	6.97	6.52
1910.1	1940.1	7.56	6.75	6.29
2010.1	2040.1	7.33	6.57	6.19
2110.1	2140.1	7.17	6.44	6.11
2210.1	2240.1	7.15	6.41	6.09
2310.1	2340.1	7.17	6.49	6.17
2410.1	2440.1	7.34	6.65	6.28
2510.1	2540.1	7.53	6.86	6.48
2610.1	2640.1	7.69	7.00	6.62
2710.1	2740.1	7.90	7.21	6.82
2790.1	2820.1	7.97	7.34	6.96
2890.1	2920.1	8.30	7.58	7.18
2970.1	3000.1	8.52	7.77	7.36
3070.1	3100.1	8.93	8.10	7.66
3150.1	3180.1	9.24	8.35	7.90
3250.1	3280.1	9.60	8.72	8.27
3330.1	3360.1	9.67	8.88	8.49
3430.1	3460.1	9.90	9.16	8.80
3510.1	3540.1	10.00	9.29	8.93
3610.1	3640.1	10.17	9.45	9.08
3690.1	3720.1	10.39	9.62	9.23
3790.1	3820.1	10.75	9.96	9.54

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	22.74	27.14	27.29
110.1	140.1	19.85	19.12	18.73
210.1	240.1	16.33	16.06	17.03
310.1	340.1	14.73	15.39	17.51
410.1	440.1	13.91	16.16	21.77
510.1	540.1	14.17	18.03	22.94
610.1	640.1	15.20	20.34	20.16
710.1	740.1	18.02	19.82	19.09
810.1	840.1	18.13	17.34	17.56
910.1	940.1	15.97	16.35	16.80
1010.1	1040.1	14.80	16.63	17.37
1110.1	1140.1	14.57	15.71	16.84
1210.1	1240.1	14.53	14.61	15.55
1310.1	1340.1	14.51	14.78	15.59
1410.1	1440.1	14.59	14.90	16.37
1510.1	1540.1	15.71	15.60	17.23
1610.1	1640.1	15.12	15.84	17.33
1710.1	1740.1	14.22	14.78	15.81
1810.1	1840.1	12.35	12.66	13.44
1910.1	1940.1	11.46	11.79	12.51
2010.1	2040.1	10.73	10.67	11.33
2110.1	2140.1	10.72	10.62	11.06
2210.1	2240.1	10.76	10.99	11.27
2310.1	2340.1	11.77	12.28	12.72
2410.1	2440.1	12.45	13.60	14.18
2510.1	2540.1	11.75	13.47	14.38
2610.1	2640.1	11.19	13.03	14.19
2710.1	2740.1	10.75	12.36	13.88
2790.1	2820.1	10.97	12.46	14.08
2890.1	2920.1	11.63	13.21	14.88
2970.1	3000.1	12.10	13.63	15.24
3070.1	3100.1	12.49	13.91	15.31
3150.1	3180.1	12.90	14.10	15.39
3250.1	3280.1	12.72	13.60	15.10
3330.1	3360.1	12.76	13.88	15.47
3430.1	3460.1	13.63	14.64	15.92
3510.1	3540.1	13.48	14.84	15.90
3610.1	3640.1	12.58	14.44	15.73
3690.1	3720.1	12.03	14.04	15.14
3790.1	3820.1	11.45	13.47	15.36

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	0.50	0.21	0.14
110.1	140.1	0.48	0.22	0.10
210.1	240.1	0.39	0.15	0.06
310.1	340.1	0.32	0.15	0.08
410.1	440.1	0.28	0.12	0.07
510.1	540.1	0.24	0.19	0.12
610.1	640.1	0.26	0.18	0.11
710.1	740.1	0.36	0.25	0.17
810.1	840.1	0.37	0.22	0.14
910.1	940.1	0.41	0.28	0.19
1010.1	1040.1	0.31	0.23	0.18
1110.1	1140.1	0.42	0.28	0.21
1210.1	1240.1	0.39	0.24	0.18
1310.1	1340.1	0.53	0.31	0.20
1410.1	1440.1	0.42	0.26	0.16
1510.1	1540.1	0.52	0.33	0.24
1610.1	1640.1	0.43	0.30	0.24
1710.1	1740.1	0.54	0.44	0.39
1810.1	1840.1	0.77	0.66	0.61
1910.1	1940.1	1.19	1.01	0.88
2010.1	2040.1	1.45	1.24	1.04
2110.1	2140.1	1.58	1.37	1.12
2210.1	2240.1	1.46	1.23	0.99
2310.1	2340.1	1.36	1.08	0.86
2410.1	2440.1	1.23	0.91	0.69
2510.1	2540.1	1.05	0.71	0.53
2610.1	2640.1	1.08	0.67	0.45
2710.1	2740.1	1.07	0.63	0.38
2790.1	2820.1	1.09	0.64	0.37
2890.1	2920.1	1.03	0.59	0.32
2970.1	3000.1	1.09	0.60	0.32
3070.1	3100.1	1.08	0.57	0.31
3150.1	3180.1	1.19	0.61	0.32
3250.1	3280.1	1.15	0.58	0.26
3330.1	3360.1	1.24	0.64	0.29
3430.1	3460.1	1.15	0.58	0.28
3510.1	3540.1	1.11	0.53	0.24
3610.1	3640.1	1.11	0.52	0.23
3690.1	3720.1	1.15	0.52	0.21
3790.1	3820.1	1.23	0.57	0.22

REV. X3

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
1000.1	10.0	7.08	10.0	20.1	5.86	2000.1	10.0	7.99
979.9	30.2	7.09	110.0	120.1	5.89	1939.8	70.3	7.78
959.7	50.4	7.09	210.0	220.1	5.68	1879.5	130.6	7.68
939.5	70.6	7.19	310.0	320.1	5.67	1819.2	190.9	7.63
919.3	90.8	7.22	410.0	420.1	5.81	1779.0	231.1	7.53
899.1	111.0	7.21	510.0	520.1	5.77	1718.7	291.4	7.52
878.9	131.2	7.23	610.0	620.1	5.87	1678.5	331.6	7.45
858.7	151.4	7.22	710.0	720.1	5.99	1618.2	391.9	7.51
838.5	171.6	7.36	790.0	800.1	6.07	1578.0	432.1	7.45
818.3	191.8	7.24	890.0	900.1	6.24	1517.7	492.4	7.40
798.1	212.0	7.39	970.0	980.1	6.35	1477.5	532.6	7.33
777.9	232.2	7.27	1070.0	1080.1	6.44	1417.2	592.9	7.36
757.7	252.4	7.32	1150.0	1160.1	6.57	1377.0	633.1	7.18
737.4	272.7	7.41	1250.0	1260.1	6.63	1316.7	693.4	7.10
717.2	292.9	7.33	1330.0	1340.1	6.90	1276.5	733.6	7.05
697.0	313.1	7.47	1430.0	1440.1	6.94	1216.2	793.9	6.97
676.8	333.3	7.36	1510.0	1520.1	7.00	1176.0	834.1	6.93
656.6	353.5	7.45	1610.0	1620.1	7.35	1115.7	894.4	6.91
636.4	373.7	7.37	1690.0	1700.1	7.29	1075.5	934.6	6.85
616.2	393.9	7.39	1790.0	1800.1	7.55	1015.2	994.9	6.90
575.8	434.3	7.36	1870.0	1880.1	7.48	974.9	1035.2	6.82
555.6	454.5	7.35	1970.0	1980.1	7.88	914.6	1095.5	6.95
515.2	494.9	7.24	2050.0	2060.1	8.00	874.4	1135.7	6.90
495.0	515.1	7.31	2150.0	2160.1	8.06	814.1	1196.0	6.99
454.6	555.5	7.26	2230.0	2240.1	8.01	773.9	1236.2	6.95
434.4	575.7	7.11	2330.0	2340.1	8.49	713.6	1296.5	6.98
394.0	616.1	7.13	2410.0	2420.1	8.39	673.4	1336.7	6.98
373.8	636.3	7.16	2510.0	2520.1	8.49	613.1	1397.0	7.01
333.4	676.7	7.01	2590.0	2600.1	8.56	572.9	1437.2	7.02
313.2	696.9	7.17	2690.0	2700.1	8.66	512.6	1497.5	7.02
272.8	737.3	6.98	2770.0	2780.1	8.77	472.4	1537.7	6.98
252.5	757.6	6.96	2870.0	2880.1	8.94	412.1	1598.0	7.01
212.1	798.0	6.97	2950.0	2960.1	8.97	371.9	1638.2	6.96
191.9	818.2	6.84	3050.0	3060.1	9.03	311.6	1698.5	6.88
151.5	858.6	6.83	3130.0	3140.1	9.27	271.4	1738.7	6.82
131.3	878.8	6.83	3230.0	3240.1	9.41	211.1	1799.0	6.75
90.9	919.2	6.76	3310.0	3320.1	9.60	170.9	1839.2	6.67
70.7	939.4	6.81	3410.0	3420.1	9.54	110.6	1899.5	6.62
30.3	979.8	6.77	3490.0	3500.1	9.66	70.4	1939.7	6.63
10.1	1000.0	6.87	3590.0	3600.1	10.09	10.1	2000.0	6.73

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
40.1	40.65	43.98	47.40	42.63	47.12	51.27
140.1	40.49	43.45	45.94	44.09	49.65	54.41
240.1	41.19	43.35	44.52	47.43	58.80	58.29
340.1	41.73	42.89	42.88	46.50	50.65	49.36
440.1	42.76	42.78	42.23	41.40	43.38	43.26
540.1	43.54	42.56	41.49	37.74	39.24	39.25
640.1	46.26	44.33	42.22	34.77	36.02	36.05
740.1	50.31	45.33	42.11	32.60	33.84	34.02
840.1	55.79	46.56	42.51	30.48	31.88	32.17
940.1	52.94	46.17	42.51	28.38	29.73	30.32
1040.1	46.95	45.96	43.42	26.49	27.81	28.63
1140.1	42.50	42.58	41.91	25.06	26.48	27.48
1240.1	40.05	40.04	40.22	24.18	25.65	26.74
1340.1	37.34	37.58	38.17	23.30	24.69	25.99
1440.1	37.27	36.82	36.68	23.86	24.74	25.60
1540.1	38.12	37.75	37.90	23.52	24.47	25.51
1640.1	35.73	35.58	36.08	23.04	24.04	25.13
1740.1	34.19	33.96	34.47	22.88	23.80	24.85
1840.1	33.36	33.14	34.04	22.92	23.67	24.79
1940.1	32.77	32.46	33.47	23.27	23.91	24.64
2040.1	32.46	32.14	33.23	23.87	24.37	25.00
2140.1	32.87	32.90	34.16	24.71	25.08	25.56
2240.1	33.86	34.16	35.91	25.69	25.76	26.12
2340.1	34.80	35.33	36.43	27.03	27.06	27.03
2440.1	35.32	35.54	35.57	29.13	28.49	27.86
2540.1	35.40	34.95	34.10	31.81	29.96	28.46
2640.1	35.43	34.27	32.92	35.33	32.50	29.88
2740.1	35.91	34.17	32.41	35.60	33.72	31.06
2820.1	35.73	33.71	32.10	33.05	32.75	31.36
2920.1	34.83	32.33	31.24	29.40	30.11	30.28
3000.1	33.82	31.42	30.33	27.01	27.95	28.69
3100.1	32.00	30.02	29.31	24.67	25.76	26.82
3180.1	30.69	29.00	28.58	23.33	24.49	25.68
3280.1	29.06	28.01	27.76	22.30	23.78	25.15
3360.1	28.36	27.62	27.76	22.04	23.80	25.27
3460.1	28.60	28.46	28.84	22.18	23.89	24.82
3540.1	30.27	30.03	30.54	22.11	23.23	23.71
3640.1	32.94	31.90	32.34	21.57	22.16	22.45
3720.1	36.27	34.23	34.32	21.09	21.54	21.80
3820.1	40.56	36.80	36.00	20.79	21.22	21.34

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
10.1	40.1	34.31	34.25	34.34
110.1	140.1	33.74	34.39	35.23
210.1	240.1	35.04	35.47	35.92
310.1	340.1	36.09	36.46	36.75
410.1	440.1	36.76	36.93	36.80
510.1	540.1	37.54	37.29	36.86
610.1	640.1	38.14	37.27	36.73
710.1	740.1	37.65	36.77	36.18
810.1	840.1	38.43	37.53	37.17
910.1	940.1	40.10	38.77	38.25
1010.1	1040.1	42.96	41.24	40.26
1110.1	1140.1	48.76	45.08	43.33
1210.1	1240.1	57.04	48.96	45.03
1310.1	1340.1	52.43	54.45	47.52
1410.1	1440.1	36.97	39.02	42.05
1510.1	1540.1	45.26	58.25	48.15
1610.1	1640.1	54.70	48.59	42.17
1710.1	1740.1	46.89	43.79	40.85
1810.1	1840.1	42.71	41.84	40.75
1910.1	1940.1	40.98	41.13	41.62
2010.1	2040.1	40.18	40.88	42.59
2110.1	2140.1	40.14	41.10	44.80
2210.1	2240.1	40.06	41.94	45.83
2310.1	2340.1	39.98	42.68	43.49
2410.1	2440.1	39.90	43.65	41.90
2510.1	2540.1	40.16	45.17	43.66
2610.1	2640.1	40.25	43.41	42.04
2710.1	2740.1	41.26	42.46	38.74
2790.1	2820.1	42.30	42.67	37.65
2890.1	2920.1	42.76	43.21	37.44
2970.1	3000.1	41.97	42.93	37.45
3070.1	3100.1	40.62	41.12	36.66
3150.1	3180.1	39.58	39.30	35.53
3250.1	3280.1	37.52	35.32	33.20
3330.1	3360.1	34.89	32.78	32.09
3430.1	3460.1	32.90	32.24	33.97
3510.1	3540.1	33.39	33.26	37.24
3610.1	3640.1	34.72	34.30	38.99
3690.1	3720.1	35.59	35.20	39.69
3790.1	3820.1	35.80	35.50	39.50

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
10.1	40.1	1.79	1.51	1.29	40.1	1.07	1.49	2.20	10.0	1.52	1.24	1.09
110.1	140.1	1.49	1.32	1.22	140.1	1.13	1.45	2.11	50.0	1.51	1.21	1.07
210.1	240.1	1.57	1.39	1.28	240.1	1.16	1.41	2.01	90.0	1.54	1.26	1.13
310.1	340.1	1.66	1.48	1.36	340.1	1.23	1.38	1.93	130.0	1.55	1.27	1.15
410.1	440.1	1.77	1.58	1.47	440.1	1.29	1.32	1.83	170.0	1.54	1.28	1.18
510.1	540.1	1.94	1.73	1.62	540.1	1.34	1.28	1.74	210.0	1.60	1.34	1.23
610.1	640.1	2.09	1.88	1.75	640.1	1.42	1.23	1.65	250.0	1.56	1.31	1.23
710.1	740.1	2.22	2.00	1.87	740.1	1.51	1.21	1.56	310.0	1.62	1.38	1.29
810.1	840.1	2.34	2.12	1.99	840.1	1.60	1.20	1.47	350.0	1.64	1.42	1.34
910.1	940.1	2.40	2.17	2.04	940.1	1.68	1.20	1.39	410.0	1.69	1.47	1.37
1010.1	1040.1	2.43	2.19	2.05	1040.1	1.74	1.20	1.32	450.0	1.66	1.46	1.39
1110.1	1140.1	2.38	2.16	2.03	1140.1	1.79	1.20	1.25	510.0	1.67	1.48	1.40
1210.1	1240.1	2.30	2.08	1.96	1240.1	1.83	1.21	1.19	550.0	1.69	1.51	1.45
1310.1	1340.1	2.25	1.99	1.86	1340.1	1.85	1.22	1.15	610.0	1.68	1.50	1.44
1410.1	1440.1	2.18	1.91	1.77	1440.1	1.82	1.21	1.15	650.0	1.68	1.52	1.47
1510.1	1540.1	2.18	1.88	1.74	1540.1	1.80	1.21	1.17	710.0	1.64	1.49	1.43
1610.1	1640.1	2.22	1.95	1.81	1640.1	1.76	1.21	1.20	750.0	1.69	1.54	1.50
1710.1	1740.1	2.22	1.97	1.85	1740.1	1.71	1.21	1.24	810.0	1.64	1.51	1.47
1810.1	1840.1	2.16	1.92	1.80	1840.1	1.66	1.21	1.28	850.0	1.66	1.53	1.49
1910.1	1940.1	2.00	1.80	1.67	1940.1	1.59	1.20	1.31	910.0	1.60	1.48	1.46
2010.1	2040.1	1.81	1.62	1.51	2040.1	1.54	1.21	1.34	950.0	1.63	1.52	1.49
2110.1	2140.1	1.65	1.45	1.35	2140.1	1.49	1.21	1.35	1010.0	1.56	1.47	1.47
2210.1	2240.1	1.54	1.33	1.22	2240.1	1.45	1.20	1.35	1050.0	1.56	1.46	1.44
2310.1	2340.1	1.46	1.28	1.16	2340.1	1.39	1.17	1.34	1110.0	1.49	1.43	1.44
2410.1	2440.1	1.41	1.24	1.11	2440.1	1.34	1.15	1.33	1150.0	1.48	1.41	1.41
2510.1	2540.1	1.39	1.23	1.10	2540.1	1.31	1.14	1.31	1210.0	1.45	1.43	1.46
2610.1	2640.1	1.38	1.22	1.11	2640.1	1.28	1.14	1.31	1250.0	1.37	1.33	1.35
2710.1	2740.1	1.38	1.23	1.14	2740.1	1.26	1.15	1.31	1310.0	1.36	1.35	1.39
2790.1	2820.1	1.35	1.21	1.14	2820.1	1.26	1.17	1.32	1350.0	1.29	1.29	1.34
2890.1	2920.1	1.35	1.21	1.17	2920.1	1.25	1.20	1.34	1410.0	1.25	1.28	1.34
2970.1	3000.1	1.34	1.19	1.15	3000.1	1.26	1.22	1.36	1450.0	1.19	1.24	1.32
3070.1	3100.1	1.32	1.18	1.17	3100.1	1.27	1.28	1.41	1510.0	1.18	1.22	1.30
3150.1	3180.1	1.33	1.17	1.16	3180.1	1.29	1.33	1.46	1550.0	1.13	1.20	1.29
3250.1	3280.1	1.28	1.13	1.15	3280.1	1.36	1.42	1.55	1610.0	1.08	1.15	1.23
3330.1	3360.1	1.28	1.12	1.15	3360.1	1.43	1.50	1.64	1650.0	1.02	1.15	1.24
3430.1	3460.1	1.25	1.09	1.14	3460.1	1.47	1.56	1.71	1710.0	1.05	1.12	1.22
3510.1	3540.1	1.20	1.10	1.19	3540.1	1.46	1.59	1.77	1750.0	1.07	1.14	1.24
3610.1	3640.1	1.18	1.14	1.26	3640.1	1.42	1.61	1.81	1810.0	1.16	1.16	1.23
3690.1	3720.1	1.22	1.22	1.35	3720.1	1.45	1.67	1.88	1850.0	1.22	1.23	1.29
3790.1	3820.1	1.26	1.29	1.44	3820.1	1.54	1.77	1.99	1910.0	1.33	1.31	1.36

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	22	12	31	23	39	34	52	42	51
1	-	36	+0	51	18	58	32	41	53	52	48	62
2	78	65	56	58	58	67	50	>73	61	68	69	>73
3	>90	>73	59	>73	59	>73	59	73	>73	>73	69	>73
4	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
5	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
6	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
7	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
8	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
9	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
10	>90	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73	>73
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1005 MHz; -10.00 dBm.
LO IN: 1035 MHz; +10.00 dBm
IF OUT: 30 MHz; -16.67 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	33	24	43	35	51	45	61	55	63
1	-	36	+0	50	17	51	33	44	52	59	58	76
2	59	54	48	50	52	57	43	58	53	68	61	74
3	>90	55	41	61	42	62	41	59	52	61	58	71
4	>90	74	64	70	70	69	76	76	61	72	79	70
5	>90	81	67	79	61	81	59	74	60	69	66	77
6	>90	>83	>83	>83	80	82	83	78	>83	78	80	81
7	>90	>83	>83	>83	76	>83	83	>83	77	>83	75	82
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 1005 MHz; 0.00 dBm.
LO IN: 1035 MHz; +10.00 dBm
IF OUT: 30 MHz; -6.73 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.

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