

Frequency Mixer

TFM-5+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	7.32	7.04	6.50
90.4	120.4	7.44	7.05	6.87
170.7	200.7	7.26	6.94	6.77
251.0	281.0	7.17	6.88	6.70
331.3	361.3	7.09	6.80	6.64
411.5	441.5	7.09	6.81	6.66
491.8	521.8	7.14	6.85	6.68
552.0	582.0	7.15	6.83	6.66
632.3	662.3	7.15	6.83	6.64
692.5	722.5	7.18	6.82	6.63
772.8	802.8	7.20	6.85	6.62
833.0	863.0	7.31	6.95	6.73
913.3	943.3	7.48	7.06	6.79
973.6	1003.6	7.63	7.11	6.81
1053.8	1083.8	7.82	7.17	6.78
1114.1	1144.1	8.05	7.27	6.83
1194.3	1224.3	8.30	7.43	6.88
1254.6	1284.6	8.29	7.45	6.89
1334.8	1364.8	8.23	7.43	6.84
1395.1	1425.1	8.23	7.43	6.83
1475.4	1505.4	8.23	7.48	6.94
1535.6	1565.6	8.09	7.44	6.93
1615.9	1645.9	8.18	7.49	7.03
1676.1	1706.1	8.31	7.71	7.21
1756.4	1786.4	8.07	7.47	7.08
1816.6	1846.6	7.99	7.44	7.14
1896.9	1926.9	7.98	7.41	7.25
1957.1	1987.1	8.19	7.45	7.33
2037.4	2067.4	8.47	7.52	7.39
2097.6	2127.6	8.60	7.44	7.25
2177.9	2207.9	9.27	7.88	7.48
2238.1	2268.1	9.63	8.32	7.85
2318.4	2348.4	9.64	8.29	7.82
2378.6	2408.6	10.16	8.52	7.98
2458.9	2488.9	10.93	9.04	8.39
2519.1	2549.1	11.18	9.23	8.57
2599.4	2629.4	11.76	9.75	8.92
2659.6	2689.6	12.95	10.33	9.26
2739.9	2769.9	14.63	11.17	9.77
2800.1	2830.1	15.75	11.80	10.13

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	18.66	20.48	20.75
90.4	120.4	19.51	20.48	20.57
170.7	200.7	20.37	20.53	20.61
251.0	281.0	20.41	20.56	20.65
331.3	361.3	20.45	20.60	20.68
411.5	441.5	20.45	20.59	20.67
491.8	521.8	20.43	20.58	20.66
552.0	582.0	15.92	20.54	20.67
632.3	662.3	16.83	18.25	20.68
692.5	722.5	17.99	20.59	20.68
772.8	802.8	12.41	14.65	20.69
833.0	863.0	12.94	14.12	16.85
913.3	943.3	13.23	17.08	20.60
973.6	1003.6	13.08	17.32	20.59
1053.8	1083.8	12.04	20.41	16.80
1114.1	1144.1	10.21	18.14	16.29
1194.3	1224.3	9.37	13.36	13.63
1254.6	1284.6	8.86	10.95	11.21
1334.8	1364.8	7.31	8.36	8.63
1395.1	1425.1	6.44	7.16	7.49
1475.4	1505.4	6.22	6.45	6.11
1535.6	1565.6	6.02	5.68	4.84
1615.9	1645.9	5.75	5.29	6.22
1676.1	1706.1	5.72	5.99	9.55
1756.4	1786.4	5.88	8.64	11.42
1816.6	1846.6	6.33	9.97	11.95
1896.9	1926.9	6.26	9.53	11.96
1957.1	1987.1	6.22	9.43	11.84
2037.4	2067.4	6.74	9.87	12.22
2097.6	2127.6	6.52	10.29	12.10
2177.9	2207.9	5.74	10.45	12.38
2238.1	2268.1	5.95	10.74	12.65
2318.4	2348.4	5.95	10.66	12.77
2378.6	2408.6	5.96	10.36	13.08
2458.9	2488.9	5.96	10.33	13.24
2519.1	2549.1	6.54	10.72	13.58
2599.4	2629.4	6.86	10.78	13.42
2659.6	2689.6	6.46	10.61	13.25
2739.9	2769.9	6.25	10.73	12.86
2800.1	2830.1	3.98	10.62	10.94

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	0.56	0.15	0.11
90.4	120.4	0.52	0.32	0.22
170.7	200.7	0.58	0.36	0.22
251.0	281.0	0.52	0.30	0.19
331.3	361.3	0.47	0.27	0.18
411.5	441.5	0.47	0.29	0.20
491.8	521.8	0.53	0.33	0.24
552.0	582.0	0.60	0.39	0.27
632.3	662.3	0.63	0.40	0.29
692.5	722.5	0.70	0.48	0.34
772.8	802.8	0.82	0.58	0.42
833.0	863.0	0.94	0.67	0.51
913.3	943.3	1.10	0.81	0.65
973.6	1003.6	1.17	0.89	0.75
1053.8	1083.8	1.28	1.10	0.96
1114.1	1144.1	1.24	1.17	1.06
1194.3	1224.3	1.15	1.16	1.12
1254.6	1284.6	1.21	1.19	1.14
1334.8	1364.8	1.31	1.22	1.19
1395.1	1425.1	1.45	1.30	1.26
1475.4	1505.4	1.66	1.39	1.31
1535.6	1565.6	1.73	1.45	1.32
1615.9	1645.9	1.85	1.48	1.30
1676.1	1706.1	1.97	1.55	1.32
1756.4	1786.4	2.22	1.67	1.36
1816.6	1846.6	2.19	1.56	1.22
1896.9	1926.9	2.04	1.36	1.01
1957.1	1987.1	1.95	1.35	0.97
2037.4	2067.4	1.69	1.24	0.86
2097.6	2127.6	1.69	1.25	0.84
2177.9	2207.9	1.58	1.18	0.76
2238.1	2268.1	1.51	1.15	0.69
2318.4	2348.4	1.66	1.13	0.69
2378.6	2408.6	1.74	1.25	0.73
2458.9	2488.9	1.60	1.22	0.71
2519.1	2549.1	1.49	1.12	0.69
2599.4	2629.4	1.36	1.12	0.70
2659.6	2689.6	1.00	1.14	0.76
2739.9	2769.9	0.14	1.04	0.85
2800.1	2830.1	-0.47	0.90	0.96



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IF/RF MICROWAVE COMPONENTS



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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=760.1MHz (dB)
		@LO (dBm)
		+7
750.0	10.1	6.92
731.0	29.1	6.98
712.1	48.0	6.86
693.1	67.0	6.83
674.1	86.0	6.78
655.1	105.0	6.80
636.2	123.9	6.73
617.2	142.9	6.71
598.2	161.9	6.69
579.2	180.9	6.67
560.3	199.8	6.65
541.3	218.8	6.65
522.3	237.8	6.69
503.3	256.8	6.67
484.4	275.7	6.65
465.4	294.7	6.66
446.4	313.7	6.65
427.4	332.7	6.73
408.5	351.6	6.67
389.5	370.6	6.67
370.5	389.6	6.71
351.5	408.6	6.67
332.6	427.5	6.76
313.6	446.5	6.68
294.6	465.5	6.76
275.6	484.5	6.73
256.7	503.4	6.74
237.7	522.4	6.74
218.7	541.4	6.75
199.7	560.4	6.75
180.8	579.3	6.78
161.8	598.3	6.75
142.8	617.3	6.77
123.8	636.3	6.77
104.9	655.2	6.80
85.9	674.2	6.82
66.9	693.2	6.78
47.9	712.2	6.80
29.0	731.1	6.81
10.0	750.1	6.97

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)
		@LO (dBm)
		+7
10.0	20.1	7.14
70.0	80.1	6.83
130.0	140.1	6.57
190.0	200.1	7.19
250.0	260.1	7.15
310.0	320.1	7.22
370.0	380.1	7.04
430.0	440.1	6.96
490.0	500.1	7.22
550.0	560.1	7.19
610.0	620.1	6.84
670.0	680.1	7.37
730.0	740.1	7.16
790.0	800.1	7.15
850.0	860.1	6.97
910.0	920.1	7.43
970.0	980.1	7.80
1030.0	1040.1	7.93
1090.0	1100.1	7.48
1150.0	1160.1	7.46
1210.0	1220.1	7.90
1270.0	1280.1	7.56
1330.0	1340.1	8.05
1390.0	1400.1	7.79
1430.0	1440.1	8.03
1490.0	1500.1	7.91
1530.0	1540.1	7.90
1590.0	1600.1	8.18
1630.0	1640.1	8.01
1690.0	1700.1	7.86
1730.0	1740.1	8.14
1790.0	1800.1	8.14
1830.0	1840.1	8.29
1890.0	1900.1	8.65
1930.0	1940.1	8.73
1990.0	2000.1	9.19
2030.0	2040.1	9.34
2090.0	2100.1	9.84
2130.0	2140.1	10.14
2190.0	2200.1	10.67

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1510.1MHz (dB)
		@LO (dBm)
		+7
1500.0	10.1	7.41
1459.2	50.9	7.29
1418.4	91.7	7.34
1377.5	132.6	7.36
1336.7	173.4	7.33
1295.9	214.2	7.38
1255.1	255.0	7.39
1214.2	295.9	7.42
1173.4	336.7	7.42
1132.6	377.5	7.23
1091.8	418.3	7.38
1051.0	459.1	7.37
1010.1	500.0	7.41
969.3	540.8	7.42
928.5	581.6	7.44
887.7	622.4	7.37
846.8	663.3	7.43
806.0	704.1	7.43
765.2	744.9	7.45
724.4	785.7	7.45
683.6	826.5	7.40
642.7	867.4	7.40
601.9	908.2	7.41
561.1	949.0	7.40
520.3	989.8	7.34
479.5	1030.6	7.23
438.6	1071.5	7.12
397.8	1112.3	7.11
357.0	1153.1	7.17
316.2	1193.9	7.29
275.3	1234.8	7.29
254.9	1255.2	7.23
214.1	1296.0	7.27
193.7	1316.4	7.28
152.9	1357.2	7.32
132.5	1377.6	7.39
91.6	1418.5	7.42
71.2	1438.9	7.41
30.4	1479.7	7.47
10.0	1500.1	7.61



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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+4	+7	+10	+4	+7	+10			+4	+7	+10
40.1	62.66	63.10	63.08	43.94	43.90	43.84	10.1	40.1	65.20	67.18	65.34
120.4	54.66	54.86	54.77	35.49	35.82	36.00	90.4	120.4	50.57	49.77	49.27
200.7	50.61	50.83	50.99	32.16	32.48	32.49	170.7	200.7	45.07	44.38	43.93
281.0	47.93	48.24	48.44	30.06	30.26	30.18	251.0	281.0	42.21	41.47	41.12
361.3	46.23	46.66	46.97	28.35	28.55	28.52	331.3	361.3	40.84	40.13	39.79
441.5	44.80	45.30	45.68	26.52	26.91	27.12	411.5	441.5	39.63	38.82	38.29
521.8	43.54	44.27	44.86	24.89	25.55	26.02	491.8	521.8	38.88	38.00	37.42
582.0	42.69	43.55	44.27	23.89	24.77	25.39	552.0	582.0	39.55	38.47	37.70
662.3	41.88	42.52	43.23	22.69	23.69	24.65	632.3	662.3	38.57	37.32	36.61
722.5	41.71	42.60	43.36	22.03	23.11	24.10	692.5	722.5	37.69	37.18	36.41
802.8	41.18	42.10	42.87	21.15	22.50	23.77	772.8	802.8	35.56	35.79	35.96
863.0	41.06	41.90	42.83	20.40	21.81	23.27	833.0	863.0	36.16	36.03	36.35
943.3	40.25	41.04	41.77	19.72	21.05	22.48	913.3	943.3	34.61	34.42	33.89
1003.6	39.78	40.62	41.42	19.56	21.04	22.52	973.6	1003.6	32.35	32.07	31.71
1083.8	39.89	41.09	42.10	18.92	20.57	22.23	1053.8	1083.8	29.47	29.30	28.84
1144.1	39.82	41.69	43.25	18.43	20.11	21.89	1114.1	1144.1	27.31	27.28	26.93
1224.3	40.14	42.54	45.30	18.18	19.88	21.68	1194.3	1224.3	25.65	25.54	25.50
1284.6	40.78	43.53	46.83	17.86	19.52	21.09	1254.6	1284.6	24.56	24.46	24.38
1364.8	42.26	46.38	51.78	17.60	19.24	20.54	1334.8	1364.8	23.63	23.59	23.78
1425.1	44.09	50.30	60.72	17.43	18.97	20.02	1395.1	1425.1	23.28	23.16	23.39
1505.4	44.61	51.14	53.28	17.11	18.59	19.52	1475.4	1505.4	23.11	22.71	22.77
1565.6	41.16	46.29	57.61	17.58	19.00	19.53	1535.6	1565.6	22.31	21.92	21.93
1645.9	45.08	53.76	59.81	16.82	17.85	18.13	1615.9	1645.9	24.47	23.67	23.62
1706.1	44.63	50.88	61.24	16.04	16.96	16.94	1676.1	1706.1	24.82	24.14	23.96
1786.4	44.51	49.24	54.31	14.99	15.37	15.12	1756.4	1786.4	25.74	25.18	25.36
1846.6	44.97	50.10	53.99	14.17	14.20	14.01	1816.6	1846.6	26.64	26.72	27.22
1926.9	47.83	53.86	52.78	13.05	13.02	12.58	1896.9	1926.9	26.95	28.61	29.22
1987.1	49.85	55.01	50.95	12.15	12.09	11.82	1957.1	1987.1	26.89	29.16	30.50
2067.4	48.85	50.16	47.20	11.29	11.00	10.96	2037.4	2067.4	27.12	29.49	31.23
2127.6	46.02	46.36	44.06	11.04	10.66	10.50	2097.6	2127.6	27.53	29.65	31.06
2207.9	43.30	43.13	41.25	10.61	10.13	9.77	2177.9	2207.9	27.70	28.96	30.34
2268.1	41.50	41.05	39.81	10.05	9.75	9.35	2238.1	2268.1	27.79	28.54	29.47
2348.4	38.63	38.01	37.44	9.66	9.44	9.17	2318.4	2348.4	27.21	27.45	27.97
2408.6	36.69	35.92	35.75	9.42	9.06	8.98	2378.6	2408.6	26.34	26.59	26.91
2488.9	34.57	34.10	34.05	9.06	8.72	8.67	2458.9	2488.9	25.05	25.63	25.90
2549.1	33.24	33.06	33.35	9.05	8.72	8.81	2519.1	2549.1	24.06	24.96	25.26
2629.4	31.32	31.69	32.08	8.69	8.70	8.58	2599.4	2629.4	22.77	23.94	24.49
2689.6	30.09	30.63	31.14	8.47	8.58	8.48	2659.6	2689.6	21.56	22.88	23.65
2769.9	28.70	29.34	30.04	8.27	8.51	8.49	2739.9	2769.9	20.41	21.62	22.42
2830.1	27.61	28.23	29.04	8.16	8.47	8.56	2800.1	2830.1	19.63	20.63	21.38



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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=1500MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
10.1	40.1	1.49	1.59	1.74	40.1	2.09	3.11	4.55	10.0	1.73	1.44	1.21
90.4	120.4	1.25	1.33	1.41	120.4	1.89	2.64	3.60	50.5	1.75	1.46	1.22
170.7	200.7	1.25	1.33	1.39	200.7	1.81	2.49	3.34	91.1	1.77	1.48	1.24
251.0	281.0	1.27	1.34	1.40	281.0	1.88	2.57	3.40	131.6	1.77	1.48	1.25
331.3	361.3	1.31	1.38	1.42	361.3	1.95	2.68	3.54	172.2	1.80	1.51	1.29
411.5	441.5	1.33	1.39	1.45	441.5	1.93	2.60	3.37	212.7	1.78	1.50	1.28
491.8	521.8	1.33	1.39	1.44	521.8	1.93	2.58	3.34	253.3	1.82	1.53	1.31
552.0	582.0	1.32	1.38	1.43	582.0	1.92	2.52	3.22	293.8	1.80	1.51	1.30
632.3	662.3	1.32	1.37	1.41	662.3	1.94	2.50	3.14	334.4	1.82	1.53	1.32
692.5	722.5	1.33	1.38	1.42	722.5	1.98	2.51	3.11	374.9	1.86	1.57	1.35
772.8	802.8	1.33	1.36	1.39	802.8	1.99	2.49	3.04	415.5	1.87	1.58	1.36
833.0	863.0	1.32	1.33	1.35	863.0	1.99	2.45	2.96	456.0	1.94	1.64	1.41
913.3	943.3	1.35	1.35	1.35	943.3	2.01	2.43	2.90	496.6	1.94	1.64	1.41
973.6	1003.6	1.39	1.37	1.37	1003.6	2.02	2.42	2.86	537.1	2.05	1.73	1.49
1053.8	1083.8	1.49	1.46	1.45	1083.8	2.04	2.41	2.82	577.7	2.05	1.74	1.50
1114.1	1144.1	1.62	1.56	1.54	1144.1	2.06	2.42	2.82	618.2	2.09	1.77	1.52
1194.3	1224.3	1.81	1.73	1.69	1224.3	2.07	2.42	2.79	658.8	2.13	1.81	1.56
1254.6	1284.6	1.93	1.86	1.81	1284.6	2.08	2.41	2.78	699.3	2.14	1.81	1.56
1334.8	1364.8	2.10	2.02	1.96	1364.8	2.11	2.42	2.77	739.9	2.20	1.87	1.61
1395.1	1425.1	2.24	2.14	2.07	1425.1	2.12	2.40	2.73	780.4	2.16	1.84	1.58
1475.4	1505.4	2.40	2.31	2.23	1505.4	2.15	2.41	2.74	821.0	2.20	1.88	1.61
1535.6	1565.6	2.43	2.36	2.29	1565.6	2.18	2.44	2.74	861.5	2.19	1.88	1.61
1615.9	1645.9	2.57	2.50	2.42	1645.9	2.23	2.44	2.74	902.1	2.19	1.88	1.60
1676.1	1706.1	2.69	2.63	2.55	1706.1	2.25	2.43	2.71	942.6	2.22	1.91	1.64
1756.4	1786.4	2.72	2.72	2.69	1786.4	2.30	2.45	2.72	983.2	2.17	1.87	1.60
1816.6	1846.6	2.69	2.77	2.79	1846.6	2.35	2.49	2.75	1023.7	2.20	1.91	1.64
1896.9	1926.9	2.67	2.78	2.89	1926.9	2.44	2.54	2.77	1064.2	2.15	1.87	1.61
1957.1	1987.1	2.76	2.80	2.93	1987.1	2.54	2.59	2.78	1104.8	2.18	1.91	1.65
2037.4	2067.4	2.89	2.86	2.98	2067.4	2.66	2.67	2.82	1145.3	2.11	1.85	1.60
2097.6	2127.6	3.00	2.92	3.00	2127.6	2.74	2.73	2.88	1185.9	2.09	1.83	1.60
2177.9	2207.9	3.22	3.05	3.08	2207.9	2.84	2.80	2.91	1226.4	2.06	1.82	1.59
2238.1	2268.1	3.40	3.20	3.20	2268.1	2.89	2.85	2.92	1246.7	1.98	1.74	1.53
2318.4	2348.4	3.58	3.36	3.34	2348.4	2.98	2.92	3.00	1287.3	1.94	1.72	1.51
2378.6	2408.6	3.76	3.46	3.40	2408.6	3.04	2.95	3.03	1307.5	1.94	1.72	1.52
2458.9	2488.9	4.15	3.73	3.62	2488.9	3.09	3.03	3.02	1348.1	1.83	1.63	1.44
2519.1	2549.1	4.36	3.92	3.80	2549.1	3.21	3.14	3.17	1368.4	1.83	1.62	1.44
2599.4	2629.4	4.62	4.20	4.05	2629.4	3.32	3.22	3.21	1408.9	1.79	1.60	1.42
2659.6	2689.6	5.10	4.50	4.32	2689.6	3.38	3.27	3.20	1429.2	1.71	1.52	1.36
2739.9	2769.9	5.77	4.88	4.67	2769.9	3.48	3.41	3.35	1469.7	1.64	1.45	1.29
2800.1	2830.1	6.13	5.10	4.88	2830.1	3.58	3.52	3.47	1490.0	1.65	1.48	1.33



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IF/RF MICROWAVE COMPONENTS

Harmonics Tables

RF HARMONICS ORDER

(-dBm)

0	-	-	+5	24	19	31	6	33	13	37	32	60
1	-	32	+0	42	13	33	38	48	32	54	39	57
2	88	>69	51	65	60	66	61	>69	45	67	48	67
3	>90	>69	>69	>69	66	>69	62	>69	>69	>69	68	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 750 MHz; -14.00 dBm.
 LO IN: 780 MHz; +7.00 dBm
 IF OUT: 30 MHz; -21.02 dBm

RF HARMONICS ORDER

(-dBm)

0	-	-	5	34	29	43	18	46	27	53	44	75
1	-	32	+0	41	13	35	38	53	34	57	44	65
2	68	69	41	60	48	57	50	63	37	63	41	62
3	>90	57	49	56	52	57	47	54	62	69	50	73
4	>90	>79	72	73	68	75	60	>79	63	>79	57	72
5	>90	>79	>79	79	62	73	58	71	58	72	69	>79
6	>90	>79	>79	>79	75	>79	73	>79	71	>79	75	>79
7	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 750 MHz; -4.00 dBm.
 LO IN: 780 MHz; +7.00 dBm
 IF OUT: 30 MHz; -10.96 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 represents the Harmonic level of the RF input signal to the mixer.

