

# Frequency Mixer

# ADE-18W+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
1200.1	1230.1	15.12	9.84	8.41	1200.1	1230.1	2.81	13.86	15.97	1200.1	1230.1	-2.39	-0.08	0.03
1280.4	1310.4	12.99	9.23	7.97	1280.4	1310.4	4.53	11.61	13.99	1280.4	1310.4	-1.53	-0.16	0.01
1360.6	1390.6	11.08	8.47	7.54	1360.6	1390.6	6.69	10.87	11.06	1360.6	1390.6	-0.59	0.04	0.07
1440.9	1470.9	9.54	7.52	6.81	1440.9	1470.9	9.48	10.79	12.97	1440.9	1470.9	0.09	0.41	0.31
1521.2	1551.2	8.58	7.07	6.46	1521.2	1551.2	11.72	12.21	13.10	1521.2	1551.2	0.45	0.54	0.38
1601.4	1631.4	7.84	6.73	6.17	1601.4	1631.4	12.45	11.14	13.03	1601.4	1631.4	0.68	0.62	0.48
1681.7	1711.7	7.34	6.41	5.90	1681.7	1711.7	13.29	10.96	11.52	1681.7	1711.7	0.88	0.70	0.58
1762.0	1792.0	6.94	6.26	5.81	1762.0	1792.0	13.06	9.59	9.82	1762.0	1792.0	1.18	0.84	0.70
1842.2	1872.2	6.66	6.06	5.69	1842.2	1872.2	12.01	10.10	9.45	1842.2	1872.2	1.48	1.08	0.84
1922.5	1952.5	6.40	5.85	5.56	1922.5	1952.5	10.54	9.43	9.34	1922.5	1952.5	1.65	1.14	0.95
2002.8	2032.8	6.29	5.71	5.40	2002.8	2032.8	9.67	8.75	8.74	2002.8	2032.8	1.60	1.12	0.94
2083.1	2113.1	6.33	5.60	5.27	2083.1	2113.1	8.42	9.19	10.06	2083.1	2113.1	1.39	1.01	0.83
2163.3	2193.3	6.52	5.68	5.20	2163.3	2193.3	9.84	9.30	9.20	2163.3	2193.3	1.05	0.71	0.59
2243.6	2273.6	6.62	5.72	5.21	2243.6	2273.6	9.21	9.50	9.54	2243.6	2273.6	0.92	0.57	0.52
2323.9	2353.9	6.58	5.75	5.25	2323.9	2353.9	8.76	8.85	9.03	2323.9	2353.9	0.85	0.51	0.46
2404.1	2434.1	6.48	5.62	5.11	2404.1	2434.1	8.87	8.73	8.71	2404.1	2434.1	0.83	0.57	0.47
2484.4	2514.4	6.32	5.33	4.84	2484.4	2514.4	9.63	12.20	14.14	2484.4	2514.4	1.00	0.74	0.56
2564.7	2594.7	6.18	5.34	4.88	2564.7	2594.7	8.06	10.00	12.53	2564.7	2594.7	0.98	0.55	0.40
2644.9	2674.9	6.15	5.39	4.97	2644.9	2674.9	8.11	9.47	11.86	2644.9	2674.9	0.92	0.48	0.35
2725.2	2755.2	6.30	5.55	5.10	2725.2	2755.2	8.69	9.06	10.86	2725.2	2755.2	0.81	0.41	0.29
2805.5	2835.5	6.38	5.71	5.28	2805.5	2835.5	9.44	9.08	10.82	2805.5	2835.5	0.72	0.34	0.26
2885.7	2915.7	6.40	5.83	5.45	2885.7	2915.7	12.62	10.21	10.46	2885.7	2915.7	0.75	0.34	0.23
2966.0	2996.0	6.50	5.93	5.59	2966.0	2996.0	12.24	13.23	11.62	2966.0	2996.0	0.76	0.36	0.23
3046.3	3076.3	6.62	6.06	5.76	3046.3	3076.3	12.17	14.69	14.48	3046.3	3076.3	0.69	0.37	0.24
3126.5	3156.5	6.87	6.31	6.00	3126.5	3156.5	12.89	13.53	17.92	3126.5	3156.5	0.68	0.34	0.23
3206.8	3236.8	7.15	6.58	6.25	3206.8	3236.8	15.00	17.26	19.69	3206.8	3236.8	0.60	0.27	0.17
3287.1	3317.1	7.44	6.86	6.52	3287.1	3317.1	16.16	17.88	21.36	3287.1	3317.1	0.52	0.22	0.12
3347.3	3377.3	7.62	7.05	6.70	3347.3	3377.3	15.03	15.33	17.48	3347.3	3377.3	0.51	0.22	0.12
3427.5	3457.5	7.67	7.15	6.86	3427.5	3457.5	13.57	15.86	17.66	3427.5	3457.5	0.57	0.24	0.13
3487.8	3517.8	7.57	7.08	6.86	3487.8	3517.8	12.20	15.63	19.06	3487.8	3517.8	0.65	0.26	0.14
3568.0	3598.0	7.91	7.12	6.76	3568.0	3598.0	15.12	15.71	15.27	3568.0	3598.0	0.50	0.28	0.20
3628.2	3658.2	8.54	7.53	6.98	3628.2	3658.2	15.04	22.98	17.81	3628.2	3658.2	0.38	0.20	0.18
3708.5	3738.5	8.90	7.96	7.40	3708.5	3738.5	12.68	16.63	17.68	3708.5	3738.5	0.49	0.20	0.13
3768.7	3798.7	9.07	8.12	7.55	3768.7	3798.7	12.37	16.70	17.79	3768.7	3798.7	0.52	0.21	0.14
3849.0	3879.0	9.46	8.35	7.77	3849.0	3879.0	10.26	13.56	17.34	3849.0	3879.0	0.67	0.23	0.16
3909.2	3939.2	9.89	8.56	7.91	3909.2	3939.2	9.19	13.14	16.23	3909.2	3939.2	0.92	0.32	0.16
3989.4	4019.4	10.39	8.61	8.00	3989.4	4019.4	8.03	12.18	16.65	3989.4	4019.4	0.96	0.36	0.16
4049.6	4079.6	11.08	8.70	8.08	4049.6	4079.6	8.67	11.92	16.04	4049.6	4079.6	0.71	0.45	0.13
4129.9	4159.9	13.43	9.09	8.17	4129.9	4159.9	11.14	12.32	17.29	4129.9	4159.9	-0.52	0.52	0.16
4190.1	4220.1	16.28	9.85	8.29	4190.1	4220.1	2.94	13.29	17.46	4190.1	4220.1	-2.45	0.41	0.20



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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2625.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1750.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
700.0	1925.1	5.45	10.0	1760.1	6.14	700.0	2800.1	7.97
659.4	1965.7	5.53	27.7	1777.8	6.26	682.3	2817.8	7.99
618.8	2006.3	5.63	45.4	1795.5	6.31	664.6	2835.5	8.00
578.2	2046.9	5.81	63.1	1813.2	6.36	646.9	2853.2	8.03
537.6	2087.5	5.86	80.8	1830.9	6.37	629.2	2870.9	8.02
497.1	2128.0	5.85	98.5	1848.6	6.43	611.5	2888.6	8.03
456.5	2168.6	5.88	116.2	1866.3	6.49	593.8	2906.3	8.03
415.9	2209.2	5.80	133.8	1883.9	6.55	576.2	2923.9	8.05
375.3	2249.8	5.75	151.5	1901.6	6.59	558.5	2941.6	8.09
334.7	2290.4	5.70	169.2	1919.3	6.65	540.8	2959.3	8.11
294.1	2331.0	5.66	186.9	1937.0	6.68	523.1	2977.0	8.11
253.5	2371.6	5.73	204.6	1954.7	6.70	505.4	2994.7	8.13
212.9	2412.2	5.67	222.3	1972.4	6.73	487.7	3012.4	8.14
172.4	2452.7	5.66	240.0	1990.1	6.74	470.0	3030.1	8.17
131.8	2493.3	5.56	257.7	2007.8	6.76	452.3	3047.8	8.18
91.2	2533.9	5.49	275.4	2025.5	6.75	434.6	3065.5	8.17
50.6	2574.5	5.41	293.1	2043.2	6.73	416.9	3083.2	8.13
10.0	2615.1	5.32	310.8	2060.9	6.73	399.2	3100.9	8.10
30.3	2655.4	5.38	328.5	2078.6	6.73	381.5	3118.6	8.09
70.9	2696.0	5.35	346.2	2096.3	6.70	363.8	3136.3	8.09
111.5	2736.6	5.39	363.8	2113.9	6.68	346.2	3153.9	8.04
152.1	2777.2	5.46	381.5	2131.6	6.66	328.5	3171.6	8.01
192.6	2817.7	5.49	399.2	2149.3	6.68	310.8	3189.3	7.96
212.9	2838.0	5.53	416.9	2167.0	6.69	293.1	3207.0	7.92
253.5	2878.6	5.58	434.6	2184.7	6.69	275.4	3224.7	7.91
273.8	2898.9	5.56	452.3	2202.4	6.68	257.7	3242.4	7.90
314.4	2939.5	5.52	470.0	2220.1	6.66	240.0	3260.1	7.85
334.7	2959.8	5.50	487.7	2237.8	6.65	222.3	3277.8	7.78
375.3	3000.4	5.40	505.4	2255.5	6.70	204.6	3295.5	7.73
395.6	3020.7	5.35	523.1	2273.2	6.74	186.9	3313.2	7.69
436.2	3061.3	5.31	540.8	2290.9	6.76	169.2	3330.9	7.67
456.5	3081.6	5.28	558.5	2308.6	6.76	151.5	3348.6	7.62
497.1	3122.2	5.26	576.2	2326.3	6.79	133.8	3366.3	7.56
517.4	3142.5	5.26	593.8	2343.9	6.82	116.2	3383.9	7.48
557.9	3183.0	5.28	611.5	2361.6	6.83	98.5	3401.6	7.43
578.2	3203.3	5.31	629.2	2379.3	6.84	80.8	3419.3	7.39
618.8	3243.9	5.38	646.9	2397.0	6.78	63.1	3437.0	7.36
639.1	3264.2	5.43	664.6	2414.7	6.76	45.4	3454.7	7.32
679.7	3304.8	5.47	682.3	2432.4	6.76	27.7	3472.4	7.30
700.0	3325.1	5.44	700.0	2450.1	6.76	10.0	3490.1	7.23



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## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
1200.1	25.88	24.69	24.31	18.63	21.80	24.79
1280.4	25.72	24.89	24.55	20.42	24.17	27.49
1360.6	25.76	25.28	24.91	23.22	27.83	33.25
1440.9	26.26	25.90	25.58	26.73	32.63	39.58
1521.2	26.98	26.85	26.54	28.24	29.51	29.98
1601.4	28.02	28.31	27.89	24.83	24.82	24.57
1681.7	29.32	30.15	29.77	20.52	20.96	21.03
1762.0	31.15	32.67	32.39	17.42	17.98	18.46
1842.2	33.91	36.84	35.75	15.04	15.77	16.32
1922.5	37.48	43.16	36.37	13.08	14.09	14.66
2002.8	38.18	52.52	36.75	11.62	12.89	13.75
2083.1	34.74	41.16	36.33	10.30	11.82	12.84
2163.3	31.71	35.18	33.65	9.23	10.85	12.18
2243.6	29.77	32.75	32.77	8.61	10.34	11.73
2323.9	28.23	31.24	32.58	8.07	9.97	11.57
2404.1	27.25	30.50	32.66	7.72	9.70	11.53
2484.4	26.90	30.49	33.15	7.47	9.57	11.58
2564.7	26.16	29.32	31.97	7.29	9.39	11.54
2644.9	25.99	28.84	31.44	7.39	9.52	11.74
2725.2	26.58	29.37	31.89	7.67	9.90	12.25
2805.5	27.05	29.61	31.92	7.98	10.29	12.71
2885.7	27.87	30.08	32.12	8.31	10.67	13.13
2966.0	29.32	31.17	32.73	8.73	11.15	13.64
3046.3	30.76	32.14	33.16	9.24	11.65	14.15
3126.5	32.17	32.78	33.07	9.92	12.31	14.72
3206.8	33.11	33.46	33.19	10.76	13.10	15.23
3287.1	33.04	33.39	33.16	11.58	13.78	15.60
3347.3	32.62	33.05	33.12	12.15	14.14	15.66
3427.5	32.26	32.77	32.92	13.22	14.83	15.72
3487.8	31.71	32.23	32.42	14.12	15.34	15.78
3568.0	30.60	31.33	31.88	15.27	15.87	15.84
3628.2	30.92	31.71	32.26	16.28	16.27	15.72
3708.5	31.12	32.05	32.67	17.74	16.83	15.85
3768.7	31.00	32.08	32.76	19.17	17.34	15.95
3849.0	30.49	31.83	32.62	20.98	18.06	16.09
3909.2	30.30	31.67	32.54	22.41	18.33	16.14
3989.4	29.89	31.29	32.23	23.41	18.68	16.25
4049.6	29.53	30.90	31.89	23.56	19.00	16.39
4129.9	29.07	30.14	31.16	21.93	19.07	16.54
4190.1	28.82	29.59	30.54	20.47	18.83	16.52

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
1200.1	1230.1	14.20	13.45	13.19
1280.4	1310.4	14.42	14.09	13.92
1360.6	1390.6	14.81	14.78	14.75
1440.9	1470.9	15.43	15.49	15.34
1521.2	1551.2	16.22	16.36	16.31
1601.4	1631.4	16.94	17.37	17.40
1681.7	1711.7	17.65	18.25	18.47
1762.0	1792.0	18.22	18.71	19.13
1842.2	1872.2	18.33	18.41	18.25
1922.5	1952.5	17.63	17.01	16.39
2002.8	2032.8	17.15	16.20	15.27
2083.1	2113.1	16.59	15.46	14.66
2163.3	2193.3	16.08	15.25	14.60
2243.6	2273.6	15.19	14.63	14.22
2323.9	2353.9	14.51	14.27	14.04
2404.1	2434.1	14.01	13.95	13.85
2484.4	2514.4	13.73	13.95	14.11
2564.7	2594.7	13.79	13.92	14.17
2644.9	2674.9	14.24	14.34	14.52
2725.2	2755.2	14.72	14.88	15.08
2805.5	2835.5	15.27	15.43	15.64
2885.7	2915.7	15.90	16.14	16.38
2966.0	2996.0	16.50	16.84	17.09
3046.3	3076.3	17.02	17.40	17.70
3126.5	3156.5	17.56	18.00	18.35
3206.8	3236.8	18.17	18.54	18.91
3287.1	3317.1	18.87	19.21	19.51
3347.3	3377.3	19.37	19.77	20.08
3427.5	3457.5	20.18	20.52	20.79
3487.8	3517.8	20.80	21.10	21.38
3568.0	3598.0	21.29	21.50	21.78
3628.2	3658.2	21.65	21.94	22.23
3708.5	3738.5	22.43	22.62	22.91
3768.7	3798.7	23.05	23.23	23.54
3849.0	3879.0	23.68	23.91	24.19
3909.2	3939.2	24.21	24.44	24.69
3989.4	4019.4	24.96	25.33	25.58
4049.6	4079.6	25.51	25.92	26.21
4129.9	4159.9	26.21	26.28	26.71
4190.1	4220.1	26.96	26.69	26.79



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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
1200.1	1230.1	9.74	7.22	6.32
1280.4	1310.4	8.77	6.97	6.30
1360.6	1390.6	7.80	6.49	5.95
1440.9	1470.9	6.76	5.68	5.16
1521.2	1551.2	5.79	5.04	4.68
1601.4	1631.4	5.22	4.57	4.26
1681.7	1711.7	4.78	4.22	3.90
1762.0	1792.0	4.25	3.76	3.52
1842.2	1872.2	3.69	3.20	2.93
1922.5	1952.5	3.18	2.67	2.39
2002.8	2032.8	2.91	2.41	2.08
2083.1	2113.1	2.79	2.24	1.89
2163.3	2193.3	2.75	2.23	1.86
2243.6	2273.6	2.54	2.15	1.83
2323.9	2353.9	2.30	2.02	1.77
2404.1	2434.1	2.12	1.85	1.63
2484.4	2514.4	1.93	1.67	1.44
2564.7	2594.7	1.78	1.61	1.47
2644.9	2674.9	1.80	1.66	1.57
2725.2	2755.2	2.00	1.88	1.79
2805.5	2835.5	2.19	2.07	2.00
2885.7	2915.7	2.33	2.23	2.17
2966.0	2996.0	2.53	2.40	2.35
3046.3	3076.3	2.80	2.62	2.52
3126.5	3156.5	3.13	2.89	2.73
3206.8	3236.8	3.52	3.20	2.97
3287.1	3317.1	3.97	3.64	3.42
3347.3	3377.3	4.30	3.95	3.73
3427.5	3457.5	4.66	4.29	4.06
3487.8	3517.8	4.82	4.45	4.18
3568.0	3598.0	5.66	5.06	4.63
3628.2	3658.2	6.26	5.51	4.98
3708.5	3738.5	6.24	5.61	5.10
3768.7	3798.7	6.24	5.65	5.20
3849.0	3879.0	6.49	5.85	5.38
3909.2	3939.2	6.83	6.03	5.51
3989.4	4019.4	7.22	6.07	5.47
4049.6	4079.6	7.66	6.09	5.42
4129.9	4159.9	8.95	6.44	5.51
4190.1	4220.1	10.69	7.11	5.83

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
1200.1	11.38	6.39	5.07
1280.4	9.08	5.28	4.73
1360.6	6.89	4.60	4.56
1440.9	5.31	4.23	4.53
1521.2	4.30	3.84	4.39
1601.4	3.65	3.60	4.29
1681.7	3.25	3.50	4.29
1762.0	3.00	3.46	4.33
1842.2	2.86	3.45	4.36
1922.5	2.77	3.44	4.35
2002.8	2.67	3.38	4.27
2083.1	2.55	3.27	4.11
2163.3	2.43	3.13	3.91
2243.6	2.32	3.00	3.76
2323.9	2.25	2.92	3.70
2404.1	2.13	2.80	3.54
2484.4	2.02	2.62	3.40
2564.7	1.89	2.54	3.26
2644.9	1.92	2.53	3.29
2725.2	1.94	2.56	3.30
2805.5	2.00	2.59	3.30
2885.7	2.07	2.65	3.35
2966.0	2.12	2.67	3.33
3046.3	2.14	2.67	3.30
3126.5	2.25	2.73	3.34
3206.8	2.33	2.75	3.33
3287.1	2.38	2.76	3.29
3347.3	2.48	2.78	3.23
3427.5	2.52	2.78	3.22
3487.8	2.60	2.85	3.29
3568.0	2.81	2.96	3.40
3628.2	2.96	3.07	3.45
3708.5	3.32	3.35	3.72
3768.7	3.67	3.60	3.92
3849.0	4.34	4.01	4.24
3909.2	4.96	4.42	4.55
3989.4	5.81	4.89	4.86
4049.6	6.61	5.28	5.06
4129.9	7.50	5.79	5.30
4190.1	7.90	6.15	5.51

IF (OUT) (MHz)	IF VSWR @LO=3500.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.0	1.42	1.22	1.14
27.7	1.40	1.21	1.06
45.4	1.35	1.16	1.05
63.1	1.32	1.15	1.05
80.8	1.33	1.14	1.05
98.5	1.35	1.15	1.06
116.2	1.37	1.17	1.09
133.8	1.38	1.19	1.11
151.5	1.38	1.18	1.12
169.2	1.38	1.18	1.13
186.9	1.39	1.20	1.15
204.6	1.41	1.21	1.16
222.3	1.42	1.23	1.19
240.0	1.43	1.25	1.21
257.7	1.44	1.26	1.23
275.4	1.45	1.27	1.24
293.1	1.46	1.29	1.27
310.8	1.47	1.31	1.30
328.5	1.47	1.32	1.32
346.2	1.47	1.33	1.34
363.8	1.46	1.34	1.36
381.5	1.46	1.35	1.38
399.2	1.47	1.37	1.40
416.9	1.47	1.38	1.42
434.6	1.46	1.39	1.45
452.3	1.44	1.39	1.47
470.0	1.43	1.39	1.47
487.7	1.42	1.40	1.49
505.4	1.42	1.41	1.52
523.1	1.42	1.42	1.54
540.8	1.41	1.43	1.55
558.5	1.39	1.42	1.56
576.2	1.39	1.43	1.57
593.8	1.40	1.45	1.59
611.5	1.40	1.46	1.61
629.2	1.39	1.47	1.64
646.9	1.38	1.48	1.65
664.6	1.38	1.48	1.65
682.3	1.38	1.49	1.66
700.0	1.39	1.51	1.69

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+17	28	1	24	19	37	29	46	42	---
1	-	9	+0	26	35	31	34	38	44	42	71	49
2	>100	59	33	43	34	66	40	50	50	56	52	74
3	>100	62	70	53	54	55	72	57	65	61	73	60
4	100	74	77	>81	71	74	71	>81	73	69	78	77
5	98	>81	>81	>81	>81	77	>81	78	>81	>81	>81	>81
6	>100	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	96	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	98	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	94	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	---	---	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2600.1 MHz; -14.00 dBm.  
 LO IN: 2630.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -19.41 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+7	39	13	38	37	53	37	64	54	---
1	-	9	+0	29	34	36	41	53	57	59	>90	64
2	86	49	25	38	27	69	35	53	50	64	56	72
3	>100	56	53	43	38	48	61	50	51	56	62	61
4	>100	58	55	70	46	55	46	80	51	59	61	70
5	>100	70	67	67	72	56	53	57	70	59	67	64
6	>100	85	86	77	72	87	63	74	63	82	65	69
7	>100	85	87	81	82	76	83	65	67	66	82	70
8	>100	>90	88	>90	>90	87	83	90	77	84	78	89
9	>100	>90	>90	>90	>90	90	87	85	>90	75	78	77
10	---	---	>90	>90	>90	>90	>90	>90	>90	>90	>90	88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2600.1 MHz; -4.00 dBm.  
 LO IN: 2630.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -9.55 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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