

Frequency Mixer

JMS-11X+

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
5.0	35.0	7.17	6.69	6.52	10.1	40.1	14.93	16.32	16.86	10.1	40.1	1.30	0.66	0.55
10.0	40.0	7.17	6.67	6.52	70.4	100.4	12.52	12.52	13.28	69.8	99.8	1.33	0.83	0.56
70.4	100.4	7.05	6.67	6.45	130.7	160.7	10.71	12.22	16.32	129.5	159.5	1.41	0.87	0.55
130.7	160.7	7.20	6.78	6.57	191.0	221.0	10.55	14.08	18.06	189.2	219.2	1.31	0.86	0.66
191.0	221.0	7.26	6.85	6.63	251.3	281.3	11.69	17.07	17.32	249.0	279.0	1.45	0.95	0.82
251.3	281.3	7.29	6.89	6.67	311.5	341.5	13.13	15.85	15.88	308.7	338.7	1.42	1.03	0.82
311.5	341.5	7.40	6.96	6.74	371.8	401.8	14.10	13.73	13.92	368.4	398.4	1.58	1.14	0.82
371.8	401.8	7.51	7.08	6.83	432.1	462.1	12.09	12.56	12.93	428.1	458.1	1.59	1.26	0.93
432.1	462.1	7.50	7.07	6.83	492.4	522.4	10.22	10.93	12.78	487.8	517.8	1.78	1.33	1.08
492.4	522.4	7.63	7.17	6.91	552.7	582.7	8.67	10.27	11.64	547.5	577.5	1.64	1.33	1.06
552.7	582.7	7.69	7.23	6.95	613.0	643.0	8.35	9.22	10.98	607.2	637.2	1.53	1.25	1.05
613.0	643.0	7.77	7.31	7.05	673.3	703.3	7.75	9.18	10.78	667.0	697.0	1.59	1.34	1.23
673.3	703.3	7.86	7.42	7.15	733.6	763.6	7.18	8.59	10.47	726.7	756.7	1.51	1.25	1.10
733.6	763.6	7.87	7.46	7.19	793.9	823.9	6.92	8.24	9.37	786.4	816.4	1.51	1.15	0.95
793.9	823.9	7.83	7.42	7.19	834.0	864.0	7.28	8.38	9.77	846.1	876.1	1.58	1.29	1.09
834.0	864.0	7.80	7.38	7.16	894.3	924.3	7.67	9.11	10.53	905.8	935.8	1.51	1.26	1.21
894.3	924.3	7.73	7.28	7.06	934.5	964.5	7.83	9.39	10.96	945.6	975.6	1.42	1.27	1.06
934.5	964.5	7.80	7.31	7.07	994.8	1024.8	8.67	9.79	11.02	1005.3	1035.3	1.38	1.29	1.00
994.8	1024.8	7.85	7.33	7.06	1035.0	1065.0	9.27	10.57	11.08	1045.1	1075.1	1.18	1.05	0.98
1035.0	1065.0	7.93	7.38	7.07	1095.3	1125.3	8.93	11.41	12.76	1104.9	1134.9	1.16	1.01	0.88
1135.5	1165.5	8.14	7.61	7.23	1135.5	1165.5	7.78	10.04	12.83	1144.7	1174.7	1.12	0.86	0.78
1195.8	1225.8	8.24	7.77	7.41	1195.8	1225.8	6.32	7.70	9.38	1204.4	1234.4	0.97	0.73	0.62
1236.0	1266.0	8.27	7.83	7.50	1236.0	1266.0	6.29	7.06	8.01	1244.2	1274.2	1.11	0.70	0.58
1296.3	1326.3	8.23	7.83	7.52	1296.3	1326.3	6.75	7.01	7.65	1303.9	1333.9	1.10	0.80	0.59
1336.4	1366.4	8.29	7.86	7.57	1336.4	1366.4	6.86	7.51	8.46	1343.7	1373.7	1.17	0.82	0.65
1396.7	1426.7	8.29	7.84	7.58	1396.7	1426.7	7.59	8.93	9.56	1403.4	1433.4	1.20	0.69	0.64
1436.9	1466.9	8.33	7.88	7.62	1436.9	1466.9	8.45	10.22	10.87	1443.2	1473.2	1.18	0.68	0.45
1497.2	1527.2	8.36	7.92	7.68	1497.2	1527.2	9.41	11.72	12.88	1503.0	1533.0	1.15	0.65	0.41
1537.4	1567.4	8.35	7.92	7.69	1537.4	1567.4	10.35	12.78	14.30	1542.8	1572.8	1.19	0.67	0.29
1597.7	1627.7	8.48	8.06	7.85	1597.7	1627.7	10.58	13.45	14.89	1602.5	1632.5	1.19	0.56	0.24
1637.9	1667.9	8.57	8.14	7.95	1637.9	1667.9	10.60	13.43	15.36	1642.3	1672.3	1.17	0.45	0.39
1698.2	1728.2	8.73	8.31	8.11	1698.2	1728.2	10.07	13.98	15.97	1702.0	1732.0	1.12	0.55	0.25
1738.4	1768.4	8.88	8.44	8.25	1738.4	1768.4	9.82	12.64	14.77	1741.8	1771.8	1.19	0.42	0.22
1798.7	1828.7	9.11	8.65	8.48	1798.7	1828.7	9.69	12.68	14.87	1801.5	1831.5	1.02	0.48	0.24
1838.9	1868.9	9.28	8.84	8.63	1838.9	1868.9	9.64	12.66	14.40	1841.3	1871.3	1.18	0.60	0.27
1899.1	1929.1	9.55	9.08	8.90	1899.1	1929.1	9.86	12.99	14.00	1901.1	1931.1	0.95	0.50	0.23
1939.3	1969.3	9.74	9.26	9.08	1939.3	1969.3	10.18	14.52	18.25	1940.9	1970.9	0.96	0.40	0.30
1999.6	2029.6	10.06	9.52	9.32	1999.6	2029.6	11.95	15.40	20.05	2000.6	2030.6	0.94	0.62	0.12
2039.8	2069.8	10.27	9.72	9.52	2039.8	2069.8	12.77	16.22	19.97	2040.4	2070.4	1.06	0.46	0.20
2100.1	2130.1	10.68	10.05	9.83	2100.1	2130.1	13.50	15.26	18.80	2100.1	2130.1	0.93	0.53	0.25

REV. X2

JMS-11X+

100817

Page 1 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Frequency Mixer

JMS-11X+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=950.1MHz (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)=1900.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
940.0	10.1	7.64	10.0	20.1	6.71	1000.0	900.1	8.60
920.2	29.9	7.63	30.2	40.3	6.53	979.8	920.3	8.55
900.4	49.7	7.69	50.4	60.5	6.61	959.6	940.5	8.54
880.6	69.5	7.66	70.6	80.7	6.56	939.4	960.7	8.49
860.9	89.2	7.61	90.8	100.9	6.60	919.2	980.9	8.49
841.1	109.0	7.62	111.0	121.1	6.62	899.0	1001.1	8.55
821.3	128.8	7.59	131.2	141.3	6.58	878.8	1021.3	8.52
801.5	148.6	7.57	151.4	161.5	6.55	858.6	1041.5	8.51
781.7	168.4	7.56	171.6	181.7	6.58	838.4	1061.7	8.51
761.9	188.2	7.51	191.8	201.9	6.56	818.2	1081.9	8.53
742.1	208.0	7.49	212.0	222.1	6.55	798.0	1102.1	8.53
722.3	227.8	7.47	232.2	242.3	6.53	777.8	1122.3	8.53
702.6	247.5	7.47	252.4	262.5	6.52	757.6	1142.5	8.52
682.8	267.3	7.44	272.7	282.8	6.53	737.3	1162.8	8.54
663.0	287.1	7.42	292.9	303.0	6.56	717.1	1183.0	8.55
643.2	306.9	7.40	313.1	323.2	6.56	696.9	1203.2	8.56
623.4	326.7	7.39	333.3	343.4	6.57	676.7	1223.4	8.56
603.6	346.5	7.41	353.5	363.6	6.52	656.5	1243.6	8.57
583.8	366.3	7.38	373.7	383.8	6.54	636.3	1263.8	8.56
564.0	386.1	7.39	393.9	404.0	6.53	616.1	1284.0	8.55
544.3	405.8	7.38	434.3	444.4	6.50	575.7	1324.4	8.56
524.5	425.6	7.39	454.5	464.6	6.49	555.5	1344.6	8.57
504.7	445.4	7.37	494.9	505.0	6.53	515.1	1385.0	8.61
484.9	465.2	7.38	515.1	525.2	6.53	494.9	1405.2	8.65
445.3	504.8	7.37	555.5	565.6	6.54	454.5	1445.6	8.67
425.5	524.6	7.43	575.7	585.8	6.58	434.3	1465.8	8.72
386.0	564.1	7.40	616.1	626.2	6.58	393.9	1506.2	8.77
366.2	583.9	7.39	636.3	646.4	6.61	373.7	1526.4	8.77
326.6	623.5	7.39	676.7	686.8	6.66	333.3	1566.8	8.83
306.8	643.3	7.35	696.9	707.0	6.74	313.1	1587.0	8.86
267.2	682.9	7.42	737.3	747.4	6.77	272.7	1627.4	8.90
247.4	702.7	7.46	757.6	767.7	6.77	252.4	1647.7	8.91
207.9	742.2	7.50	798.0	808.1	6.90	212.0	1688.1	8.97
188.1	762.0	7.52	818.2	828.3	6.87	191.8	1708.3	8.97
148.5	801.6	7.50	858.6	868.7	6.94	151.4	1748.7	9.00
128.7	821.4	7.47	878.8	888.9	6.98	131.2	1768.9	9.04
89.1	861.0	7.45	919.2	929.3	7.01	90.8	1809.3	9.06
69.4	880.7	7.41	939.4	949.5	7.07	70.6	1829.5	9.05
29.8	920.3	7.31	979.8	989.9	7.12	30.2	1869.9	9.05
10.0	940.1	7.22	1000.0	1010.1	7.14	10.0	1890.1	9.12

REV. X2

JMS-11X+

100817

Page 2 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
5.0	58.78	57.72	57.53	66.40	66.80	67.41
10.0	58.07	57.22	56.74	65.60	64.98	65.00
70.4	53.92	53.11	52.32	58.05	58.18	59.42
130.7	48.71	48.27	47.83	53.32	53.87	54.78
191.0	46.33	45.74	45.24	51.17	51.70	52.27
251.3	44.63	44.05	43.48	49.56	50.53	50.68
311.5	43.34	42.67	42.12	49.03	49.41	49.44
371.8	42.26	41.64	41.17	48.35	48.61	48.34
432.1	41.36	40.78	40.36	47.74	47.72	47.47
492.4	40.48	40.00	39.71	47.05	47.01	46.71
552.7	39.83	39.25	38.82	46.31	46.15	45.93
613.0	39.28	39.11	38.86	45.14	45.18	45.13
673.3	38.36	38.20	38.21	43.71	43.84	44.02
733.6	37.23	36.98	36.90	42.27	42.62	42.86
793.9	36.46	36.34	36.11	41.23	41.69	42.11
854.0	36.02	36.23	36.14	40.54	41.11	41.63
894.3	35.06	35.63	35.94	39.54	40.14	40.76
934.5	34.59	35.25	35.72	38.85	39.48	40.16
994.8	33.98	34.54	35.13	37.81	38.47	39.16
1035.0	33.89	34.41	35.02	37.09	37.79	38.45
1135.5	33.73	34.09	34.57	34.95	35.82	36.55
1195.8	34.16	34.48	34.78	33.73	34.66	35.42
1236.0	34.53	34.93	35.13	33.00	33.91	34.68
1296.3	35.01	35.61	35.80	32.10	33.02	33.78
1336.4	35.02	35.66	35.79	31.61	32.56	33.35
1396.7	34.45	34.93	34.95	31.00	32.02	32.90
1436.9	33.68	33.93	33.86	30.76	31.88	32.85
1497.2	32.23	32.24	32.16	30.43	31.68	32.79
1537.4	31.35	31.27	31.19	30.30	31.64	32.84
1597.7	30.37	30.23	30.10	30.12	31.61	32.99
1637.9	29.95	29.79	29.63	29.95	31.50	32.94
1698.2	29.33	29.13	28.91	30.03	31.68	33.25
1738.4	28.92	28.71	28.49	30.12	31.80	33.39
1798.7	28.29	28.11	27.89	30.38	32.16	33.82
1838.9	27.74	27.59	27.39	30.62	32.53	34.30
1899.1	27.07	26.98	26.83	30.85	32.83	34.68
1939.3	26.55	26.52	26.39	31.27	33.37	35.27
1999.6	25.88	25.97	25.90	31.50	33.79	35.76
2039.8	25.43	25.58	25.54	31.92	34.33	36.15
2100.1	24.79	25.10	25.14	32.20	34.82	36.44

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	34.63	35.39	37.25
70.4	100.4	34.71	34.89	33.93
130.7	160.7	29.84	29.82	29.74
191.0	221.0	27.10	27.27	27.18
251.3	281.3	25.52	25.52	25.56
311.5	341.5	24.50	24.54	24.48
371.8	401.8	23.75	23.80	23.94
432.1	462.1	23.07	23.16	23.23
492.4	522.4	22.38	22.47	22.51
552.7	582.7	21.67	21.84	21.91
613.0	643.0	20.71	20.89	21.04
673.3	703.3	19.40	19.54	19.67
733.6	763.6	18.18	18.28	18.34
793.9	823.9	17.12	17.17	17.21
854.0	864.0	16.57	16.61	16.63
894.3	924.3	15.94	15.99	16.02
934.5	964.5	15.63	15.71	15.77
994.8	1024.8	15.32	15.42	15.56
1035.0	1065.0	15.13	15.29	15.45
1095.3	1125.3	14.93	15.10	15.29
1135.5	1165.5	14.77	14.92	15.08
1195.8	1225.8	14.67	14.84	14.94
1236.0	1266.0	14.60	14.81	14.94
1296.3	1326.3	14.54	14.82	15.02
1336.4	1366.4	14.38	14.71	14.94
1396.7	1426.7	14.12	14.47	14.69
1436.9	1466.9	13.86	14.16	14.36
1497.2	1527.2	13.31	13.54	13.65
1537.4	1567.4	12.91	13.03	13.08
1597.7	1627.7	12.21	12.21	12.18
1637.9	1667.9	11.74	11.66	11.58
1698.2	1728.2	11.04	10.86	10.72
1738.4	1768.4	10.62	10.37	10.20
1798.7	1828.7	9.98	9.65	9.43
1838.9	1868.9	9.62	9.24	9.00
1899.1	1929.1	9.03	8.60	8.35
1939.3	1969.3	8.67	8.22	7.96
1999.6	2029.6	8.26	7.75	7.48
2039.8	2069.8	8.05	7.52	7.24
2100.1	2130.1	7.73	7.17	6.89

Frequency Mixer

JMS-11X+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1900.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.35	1.21	1.11	5.0	2.14	2.98	4.12	5.0	1.27	1.29	1.32
10.0	40.0	1.36	1.22	1.12	10.0	1.99	2.83	3.95	10.1	1.08	1.10	1.14
70.4	100.4	1.16	1.01	1.11	70.4	1.88	2.69	3.75	29.9	1.10	1.05	1.12
130.7	160.7	1.17	1.03	1.08	130.7	1.88	2.69	3.74	49.7	1.04	1.08	1.19
191.0	221.0	1.22	1.09	1.05	191.0	1.88	2.67	3.67	69.5	1.04	1.13	1.17
251.3	281.3	1.24	1.11	1.03	251.3	1.88	2.65	3.65	89.3	1.04	1.10	1.18
311.5	341.5	1.30	1.16	1.07	311.5	1.91	2.67	3.67	109.1	1.02	1.08	1.14
371.8	401.8	1.36	1.23	1.13	371.8	1.94	2.73	3.73	128.9	1.02	1.09	1.15
432.1	462.1	1.43	1.29	1.20	432.1	1.94	2.71	3.67	148.7	1.04	1.10	1.17
492.4	522.4	1.54	1.40	1.30	492.4	1.95	2.69	3.62	168.5	1.06	1.11	1.16
552.7	582.7	1.60	1.45	1.36	552.7	2.01	2.78	3.73	188.3	1.05	1.09	1.15
613.0	643.0	1.65	1.50	1.40	613.0	2.01	2.74	3.64	208.1	1.04	1.08	1.13
673.3	703.3	1.72	1.58	1.49	673.3	2.03	2.74	3.62	227.9	1.02	1.07	1.13
733.6	763.6	1.74	1.63	1.56	733.6	2.11	2.84	3.74	247.7	1.02	1.09	1.16
793.9	823.9	1.71	1.62	1.58	793.9	2.11	2.80	3.65	267.5	1.04	1.11	1.18
834.0	864.0	1.75	1.65	1.61	834.0	2.17	2.88	3.73	287.3	1.06	1.12	1.19
894.3	924.3	1.70	1.60	1.59	894.3	2.17	2.83	3.63	307.1	1.05	1.13	1.18
934.5	964.5	1.71	1.59	1.56	934.5	2.26	2.93	3.74	326.9	1.06	1.13	1.19
994.8	1024.8	1.68	1.55	1.52	994.8	2.28	2.94	3.71	346.7	1.09	1.16	1.22
1035.0	1065.0	1.69	1.53	1.47	1035.0	2.35	3.01	3.79	386.3	1.12	1.18	1.24
1095.3	1125.3	1.70	1.55	1.46	1095.3	2.40	3.06	3.82	406.1	1.13	1.18	1.24
1135.5	1165.5	1.78	1.63	1.51	1135.5	2.43	3.08	3.84	445.7	1.14	1.20	1.26
1195.8	1225.8	1.67	1.57	1.48	1195.8	2.49	3.12	3.86	465.5	1.16	1.22	1.28
1236.0	1266.0	1.66	1.57	1.50	1236.0	2.53	3.17	3.91	505.1	1.20	1.26	1.31
1296.3	1326.3	1.55	1.47	1.43	1296.3	2.55	3.14	3.85	524.9	1.21	1.27	1.32
1336.4	1366.4	1.50	1.41	1.37	1336.4	2.60	3.19	3.90	564.5	1.25	1.31	1.36
1396.7	1426.7	1.38	1.31	1.30	1396.7	2.60	3.14	3.80	584.3	1.27	1.32	1.38
1436.9	1466.9	1.29	1.22	1.24	1436.9	2.66	3.18	3.85	623.9	1.33	1.39	1.44
1497.2	1527.2	1.21	1.17	1.23	1497.2	2.68	3.16	3.80	643.7	1.35	1.41	1.46
1537.4	1567.4	1.12	1.16	1.26	1537.4	2.74	3.21	3.85	683.3	1.40	1.46	1.50
1597.7	1627.7	1.07	1.17	1.27	1597.7	2.84	3.29	3.90	703.1	1.42	1.47	1.51
1637.9	1667.9	1.07	1.22	1.33	1637.9	2.95	3.36	3.95	742.7	1.49	1.54	1.58
1698.2	1728.2	1.08	1.25	1.36	1698.2	3.12	3.48	4.04	762.5	1.52	1.57	1.61
1738.4	1768.4	1.13	1.30	1.42	1738.4	3.28	3.60	4.14	802.1	1.56	1.61	1.65
1798.7	1828.7	1.19	1.34	1.46	1798.7	3.47	3.72	4.18	821.9	1.61	1.66	1.70
1838.9	1868.9	1.18	1.37	1.51	1838.9	3.66	3.86	4.30	861.5	1.73	1.78	1.81
1899.1	1929.1	1.23	1.42	1.56	1899.1	3.86	3.96	4.33	881.3	1.75	1.81	1.84
1939.3	1969.3	1.20	1.40	1.54	1939.3	4.07	4.12	4.46	920.9	1.83	1.88	1.92
1999.6	2029.6	1.21	1.42	1.56	1999.6	4.30	4.22	4.46	940.7	1.90	1.95	1.99
2039.8	2069.8	1.15	1.35	1.48	2039.8	4.52	4.39	4.61	980.3	1.99	2.04	2.07
2100.1	2130.1	1.16	1.37	1.51	2100.1	4.73	4.50	4.63	1000.1	2.01	2.07	2.10

REV. X2

JMS-11X+

100817

Page 4 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	18	11	25	16	38	36	55	45	70
1	-	8	0	30	19	26	28	27	46	44	54	47
2	110	61	54	51	55	64	53	56	46	99	58	74
3	113	59	61	76	56	82	66	59	66	62	74	72
4	117	90	87	86	85	82	88	100	84	83	76	93
5	116	89	98	89	90	93	81	94	93	84	89	92
6	116	102	101	98	105	118	93	87	99	102	96	106
7	112	107	108	99	109	108	105	103	89	95	97	98
8	111	94	106	114	104	102	107	110	98	83	102	104
9	117	101	93	104	101	105	97	103	98	93	89	100
10	112	101	103	95	108	106	105	101	107	103	93	89
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 950.1 MHz; -14.00 dBm.
LO IN: 980.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -21.95 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	28	22	39	31	52	56	67	57	75
1	-	8	0	30	19	30	30	32	52	54	69	68
2	90	54	48	44	52	55	46	54	41	64	59	76
3	115	42	44	59	41	56	66	43	51	45	63	61
4	115	74	74	71	62	58	62	71	68	62	54	76
5	112	78	75	72	62	68	53	67	61	58	63	61
6	108	93	80	89	94	90	75	73	74	87	82	73
7	118	91	93	81	83	82	77	82	68	79	80	69
8	103	119	96	100	89	95	90	93	84	81	82	108
9	112	101	115	102	99	89	91	92	88	91	80	89
10	112	109	98	111	99	104	95	110	97	95	94	90
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 950.1 MHz; -4.00 dBm.
LO IN: 980.01 MHz; +7.00 dBm
IF OUT: 29.91 MHz; -12.14 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.



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



REV. X2
JMS-11X+
100817
Page 5 of 5