Frequency Mixer ADE-R20LH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+7	+10	+13
600.0	630.0	14.31	13.40	12.68
700.0	730.0	13.55	12.52	11.75
800.0	830.0	12.45	11.33	10.70
900.0	930.0	11.40	10.40	9.91
1000.0	1030.0	10.10	9.31	9.01
1100.0	1130.0	9.23	8.46	8.20
1200.0	1230.0	8.56	7.92	7.66
1300.0	1330.0	8.02	7.48	7.21
1400.0	1430.0	7.57	7.03	6.79
1500.0	1530.0	6.92	6.45	6.29
1600.0	1630.0	6.48	6.14	6.01
1700.0	1730.0	6.28	6.05	5.94
1800.0	1830.0	6.14	5.98	5.91
1900.0	1930.0	6.02	5.88	5.82
2000.0	2030.0	5.97	5.80	5.73
2100.0	2130.0	5.95	5.78	5.69
2200.0	2230.0	5.83	5.67	5.60
2300.0	2330.0	5.74	5.59	5.53
2400.0	2430.0	5.67	5.48	5.44
2500.0	2530.0	5.67	5.43	5.37
2600.0	2630.0	5.80	5.48	5.41
2700.0	2730.0	5.99	5.64	5.54
2800.0	2830.0	6.28	5.87	5.73
2900.0	2930.0	6.57	6.03	5.81
3000.0	3030.0	6.83	6.19	5.90
3100.0	3130.0	7.09	6.42	6.13
3180.0	3210.0	7.40	6.75	6.46
3280.0	3310.0	7.81	7.09	6.77
3360.0	3390.0	8.10	7.44	7.15
3460.0	3490.0	8.41	7.68	7.39
3540.0	3570.0	8.63	7.98	7.69
3640.0	3670.0	8.93	8.29	8.03
3720.0	3750.0	9.11	8.55	8.32
3820.0	3850.0	9.34	8.93	8.75
3900.0	3930.0	9.47	9.07	8.98
4000.0	4030.0	10.01	9.26	9.22
4080.0	4110.0	10.36	9.36	9.30
4180.0	4210.0	11.04	9.67	9.57
4260.0	4290.0	11.77	9.82	9.66
4360.0	4390.0	12.35	10.02	9.83

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+7	+10	+13
600.0	630.0	19.40	16.55	18.34
700.0	730.0	14.60	15.06	21.32
800.0	830.0	11.69	16.48	20.70
900.0	930.0	10.73	15.06	19.08
1000.0	1030.0	11.12	14.17	16.74
1100.0	1130.0	9.73	11.47	12.91
1200.0	1230.0	8.30	9.66	11.29
1300.0	1330.0	6.06	8.23	10.74
1400.0	1430.0	5.12	8.99	11.70
1500.0	1530.0	6.09	9.49	12.03
1600.0	1630.0	8.32	10.93	13.07
1700.0	1730.0	10.53	12.65	14.04
1800.0	1830.0	13.02	13.80	14.57
1900.0	1930.0	13.10	13.89	14.61
2000.0	2030.0	13.70	14.25	15.34
2100.0	2130.0	13.67	14.57	15.48
2200.0	2230.0	13.46	14.46	15.26
2300.0	2330.0	13.92	14.93	15.62
2400.0	2430.0	12.64	14.17	15.42
2500.0	2530.0	12.03	13.66	15.35
2600.0	2630.0	12.55	13.68	15.43
2700.0	2730.0	14.03	14.49	16.10
2800.0	2830.0	16.80	16.36	16.59
2900.0	2930.0	15.23	15.27	15.80
3000.0	3030.0	12.23	13.54	14.70
3100.0	3130.0	11.16	12.24	16.72
3180.0	3210.0	11.44	13.11	14.75
3280.0	3310.0	11.43	13.14	15.12
3360.0	3390.0	11.89	13.02	15.33
3460.0	3490.0	13.03	13.35	15.55
3540.0	3570.0	13.47	13.64	15.68
3640.0	3670.0	14.57	14.30	15.63
3720.0	3750.0	16.02	15.06	16.36
3820.0	3850.0	23.83	15.81	17.23
3900.0	3930.0	17.56	17.86	17.71
4000.0	4030.0	14.92	21.82	18.16
4080.0	4110.0	14.81	21.41	18.77
4180.0	4210.0	14.85	19.25	20.06
4260.0	4290.0	13.47	18.96	21.95
4360.0	4390.0	13.30	19.52	24.51

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB) @LO (dBm)		
		+7	+10	+13
600.0	630.0	-0.20	-0.29	-0.08
700.0	730.0	-0.44	-0.27	0.01
800.0	830.0	-0.30	-0.05	0.10
900.0	930.0	0.01	0.15	0.17
1000.0	1030.0	0.68	0.67	0.57
1100.0	1130.0	1.07	1.07	0.89
1200.0	1230.0	1.48	1.39	1.11
1300.0	1330.0	1.74	1.56	1.27
1400.0	1430.0	1.80	1.55	1.22
1500.0	1530.0	2.05	1.67	1.31
1600.0	1630.0	2.12	1.67	1.32
1700.0	1730.0	2.08	1.65	1.30
1800.0	1830.0	1.71	1.36	1.09
1900.0	1930.0	1.44	1.11	0.90
2000.0	2030.0	1.37	1.04	0.83
2100.0	2130.0	1.25	0.96	0.76
2200.0	2230.0	1.28	0.93	0.72
2300.0	2330.0	1.25	0.88	0.66
2400.0	2430.0	1.28	0.82	0.59
2500.0	2530.0	1.21	0.74	0.51
2600.0	2630.0	1.26	0.74	0.48
2700.0	2730.0	1.26	0.74	0.44
2800.0	2830.0	1.24	0.70	0.41
2900.0	2930.0	1.38	0.89	0.57
3000.0	3030.0	1.50	1.10	0.75
3100.0	3130.0	1.46	1.10	0.80
3180.0	3210.0	1.22	0.91	0.64
3280.0	3310.0	0.86	0.58	0.39
3360.0	3390.0	0.60	0.36	0.26
3460.0	3490.0	0.56	0.30	0.22
3540.0	3570.0	0.38	0.22	0.19
3640.0	3670.0	0.30	0.19	0.18
3720.0	3750.0	0.27	0.19	0.18
3820.0	3850.0	0.26	0.16	0.16
3900.0	3930.0	0.27	0.16	0.14
4000.0	4030.0	0.34	0.16	0.13
4080.0	4110.0	0.09	0.18	0.13
4180.0	4210.0	-0.09	0.17	0.11
4260.0	4290.0	-0.39	0.18	0.12
4360.0	4390.0	-0.52	0.18	0.13

Mini-Circuits®
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 minicircuits.com

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2250MHz (dB) @LO (dBm) +10
1110.0	1140.0	10.21
1048.9	1201.1	9.83
987.8	1262.2	9.39
926.7	1323.3	9.12
865.6	1384.4	8.92
804.4	1445.6	8.87
743.3	1506.7	8.56
682.2	1567.8	8.16
621.1	1628.9	7.62
560.0	1690.0	7.15
498.9	1751.1	6.86
437.8	1812.2	6.25
376.7	1873.3	6.05
315.6	1934.4	5.99
254.4	1995.6	6.05
193.3	2056.7	6.07
132.2	2117.8	6.02
71.1	2178.9	5.92
10.0	2240.0	5.96
49.3	2299.3	5.74
108.1	2358.1	5.93
167.0	2417.0	6.10
225.9	2475.9	6.27
284.8	2534.8	6.35
324.1	2574.1	6.40
383.0	2633.0	6.55
422.2	2672.2	6.60
481.1	2731.1	6.76
520.4	2770.4	6.81
579.3	2829.3	6.99
618.5	2868.5	7.15
677.4	2927.4	7.31
716.7	2966.7	7.57
775.6	3025.6	7.89
814.8	3064.8	8.21
873.7	3123.7	8.52
913.0	3163.0	8.86
971.9	3221.9	9.34
1011.1	3261.1	9.74
1070.0	3320.0	10.23

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1439.9MHz (dB) @LO (dBm) +10
60.1	1500.0	6.79
80.1	1520.0	6.89
100.1	1540.0	6.81
120.1	1560.0	6.85
140.1	1580.0	6.81
160.1	1600.0	6.75
180.1	1620.0	6.71
200.1	1640.0	6.68
220.1	1660.0	6.69
240.1	1680.0	6.64
260.1	1700.0	6.68
280.1	1720.0	6.65
300.1	1740.0	6.73
320.1	1760.0	6.71
340.1	1780.0	6.81
360.1	1800.0	6.83
380.1	1820.0	6.92
400.1	1840.0	6.99
420.1	1860.0	7.06
440.1	1880.0	7.10
480.1	1920.0	7.35
500.1	1940.0	7.46
540.1	1980.0	7.61
560.1	2000.0	7.65
600.1	2040.0	7.79
620.1	2060.0	7.99
660.1	2100.0	8.10
680.1	2120.0	8.02
720.1	2160.0	8.14
740.1	2180.0	8.31
780.1	2220.0	8.50
800.1	2240.0	8.54
840.1	2280.0	8.76
860.1	2300.0	8.95
900.1	2340.0	9.35
920.1	2360.0	9.44
960.1	2400.0	9.84
980.1	2420.0	10.15
1020.1	2460.0	10.58
1040.1	2480.0	10.68

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3010.1MHz (dB) @LO (dBm) +10
1210.1	1800.0	12.13
1170.1	1840.0	11.82
1130.1	1880.0	11.58
1090.1	1920.0	11.30
1050.1	1960.0	11.00
1030.1	1980.0	10.74
990.1	2020.0	10.47
970.1	2040.0	10.31
930.1	2080.0	9.97
910.1	2100.0	9.72
870.1	2140.0	9.23
850.1	2160.0	9.07
810.1	2200.0	8.57
790.1	2220.0	8.24
750.1	2260.0	7.79
730.1	2280.0	7.63
690.1	2320.0	7.35
670.1	2340.0	7.27
630.1	2380.0	7.13
610.1	2400.0	7.14
570.1	2440.0	7.10
550.1	2460.0	7.05
510.1	2500.0	7.06
490.1	2520.0	7.02
450.1	2560.0	6.97
430.1	2580.0	6.86
390.1	2620.0	6.85
370.1	2640.0	6.81
330.1	2680.0	6.74
310.1	2700.0	6.66
270.1	2740.0	6.55
250.1	2760.0	6.48
210.1	2800.0	6.35
190.1	2820.0	6.34
150.1	2860.0	6.23
130.1	2880.0	6.14
90.1	2920.0	6.08
70.1	2940.0	6.13
30.1	2980.0	6.10
10.1	3000.0	6.27

Mini-Circuits®
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 minicircuits.com

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+7	+10	+13	+7	+10	+13
630.0	23.81	24.85	25.39	12.29	13.60	14.42
730.0	24.46	25.28	25.44	13.58	14.66	15.09
830.0	24.94	25.43	25.27	14.28	15.06	15.17
930.0	25.16	25.45	25.26	14.47	15.02	15.12
1030.0	25.82	26.13	25.74	14.88	15.31	15.24
1130.0	26.98	26.99	26.47	15.63	15.83	15.54
1230.0	28.91	28.48	27.63	16.64	16.60	16.00
1330.0	32.67	31.07	30.00	18.11	17.64	17.04
1430.0	40.56	36.21	33.91	19.76	19.04	18.37
1530.0	46.45	43.07	39.48	21.73	20.91	20.12
1630.0	38.42	39.62	39.60	24.52	23.26	22.44
1730.0	36.12	37.22	37.47	27.54	26.06	25.06
1830.0	33.41	34.46	34.90	30.72	28.90	27.77
1930.0	32.06	32.61	32.97	33.57	31.58	30.41
2030.0	31.67	32.08	32.34	35.76	33.93	32.87
2130.0	31.00	31.23	31.41	37.49	36.35	35.52
2230.0	30.73	30.70	30.61	38.83	38.28	37.83
2330.0	30.61	30.60	30.40	39.96	40.31	40.55
2430.0	30.52	30.52	30.37	40.16	40.88	41.53
2530.0	30.45	30.38	30.37	40.84	41.71	42.58
2630.0	30.38	30.38	30.35	41.69	42.59	43.15
2730.0	30.09	30.54	30.53	42.54	43.20	42.76
2830.0	30.18	30.76	31.00	42.39	42.59	41.72
2930.0	31.03	31.49	31.99	42.07	41.61	40.57
3030.0	31.60	32.14	32.48	42.09	41.74	39.84
3130.0	32.18	32.78	33.17	41.75	41.07	38.94
3210.0	32.78	33.55	34.05	41.45	40.65	38.38
3310.0	33.78	34.75	35.31	40.83	39.96	37.49
3390.0	34.88	35.84	36.42	40.24	39.23	36.91
3490.0	36.84	37.71	38.22	39.43	38.55	36.30
3570.0	38.60	39.30	39.52	38.88	37.72	35.49
3670.0	40.76	41.40	41.00	38.26	37.05	34.77
3750.0	42.67	42.88	41.61	37.72	36.35	34.10
3850.0	44.42	44.70	41.97	36.94	35.90	33.15
3930.0	44.95	45.39	42.48	36.65	35.62	32.64
4030.0	43.62	43.11	42.15	36.15	35.19	32.06
4110.0	43.55	42.09	41.39	35.64	34.84	31.68
4210.0	42.60	40.54	39.72	35.08	34.17	31.05
4290.0	42.28	39.37	38.80	34.59	33.81	30.69
4390.0	40.72	37.90	37.46	34.13	32.81	30.15

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+7	+10	+13
600.0	630.0	20.69	22.10	23.45
700.0	730.0	18.51	19.24	19.83
800.0	830.0	15.32	15.75	16.12
900.0	930.0	13.45	13.72	13.93
1000.0	1030.0	11.88	12.01	12.01
1100.0	1130.0	10.31	10.33	10.44
1200.0	1230.0	9.23	9.27	9.32
1300.0	1330.0	8.86	8.89	8.89
1400.0	1430.0	9.26	9.16	9.08
1500.0	1530.0	10.26	10.05	9.97
1600.0	1630.0	11.08	10.84	10.74
1700.0	1730.0	11.69	11.51	11.41
1800.0	1830.0	12.16	11.98	11.89
1900.0	1930.0	12.83	12.64	12.51
2000.0	2030.0	13.29	13.15	13.03
2100.0	2130.0	13.78	13.73	13.67
2200.0	2230.0	14.33	14.26	14.23
2300.0	2330.0	14.90	14.93	14.95
2400.0	2430.0	15.54	15.67	15.76
2500.0	2530.0	16.16	16.49	16.69
2600.0	2630.0	16.66	17.23	17.58
2700.0	2730.0	17.22	17.87	18.37
2800.0	2830.0	17.66	18.29	18.74
2900.0	2930.0	17.81	18.38	18.74
3000.0	3030.0	18.53	19.00	19.29
3100.0	3130.0	19.91	20.25	20.38
3180.0	3210.0	20.94	21.17	21.23
3280.0	3310.0	22.18	22.12	21.97
3360.0	3390.0	22.73	22.43	22.17
3460.0	3490.0	22.67	22.07	21.74
3540.0	3570.0	22.50	21.84	21.48
3640.0	3670.0	22.00	21.27	20.94
3720.0	3750.0	21.55	20.78	20.46
3820.0	3850.0	20.90	20.27	19.92
3900.0	3930.0	20.64	19.79	19.41
4000.0	4030.0	20.45	19.47	19.05
4080.0	4110.0	20.23	19.28	18.80
4180.0	4210.0	19.59	18.79	18.32
4260.0	4290.0	19.28	18.53	18.06
4360.0	4390.0	18.73	18.01	17.58

Mini-Circuits®
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 minicircuits.com

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+7	+10	+13
600.0	630.0	14.15	14.15	13.92
700.0	730.0	12.35	11.93	11.46
800.0	830.0	9.79	9.38	8.95
900.0	930.0	7.47	7.11	6.91
1000.0	1030.0	5.65	5.28	5.14
1100.0	1130.0	4.35	4.01	3.82
1200.0	1230.0	3.34	3.10	2.91
1300.0	1330.0	2.58	2.41	2.28
1400.0	1430.0	1.97	1.89	1.86
1500.0	1530.0	1.48	1.48	1.52
1600.0	1630.0	1.28	1.35	1.40
1700.0	1730.0	1.42	1.50	1.55
1800.0	1830.0	1.62	1.71	1.77
1900.0	1930.0	1.72	1.80	1.86
2000.0	2030.0	1.82	1.87	1.91
2100.0	2130.0	1.87	1.89	1.91
2200.0	2230.0	1.82	1.84	1.85
2300.0	2330.0	1.71	1.71	1.72
2400.0	2430.0	1.56	1.54	1.54
2500.0	2530.0	1.40	1.37	1.38
2600.0	2630.0	1.27	1.24	1.28
2700.0	2730.0	1.15	1.17	1.28
2800.0	2830.0	1.07	1.17	1.30
2900.0	2930.0	1.14	1.20	1.29
3000.0	3030.0	1.39	1.41	1.46
3100.0	3130.0	1.78	1.81	1.84
3180.0	3210.0	2.13	2.17	2.20
3280.0	3310.0	2.59	2.64	2.66
3360.0	3390.0	2.92	3.01	3.04
3460.0	3490.0	3.30	3.40	3.43
3540.0	3570.0	3.73	3.82	3.84
3640.0	3670.0	4.26	4.38	4.40
3720.0	3750.0	4.68	4.82	4.83
3820.0	3850.0	5.07	5.27	5.31
3900.0	3930.0	5.42	5.56	5.66
4000.0	4030.0	5.89	5.77	5.85
4080.0	4110.0	6.32	5.97	5.95
4180.0	4210.0	6.94	6.28	6.13
4260.0	4290.0	7.41	6.42	6.15
4360.0	4390.0	7.80	6.51	6.15

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+7	+10	+13
630.0	3.35	2.24	2.14
730.0	2.95	2.06	2.05
830.0	2.62	1.94	2.02
930.0	2.33	1.84	2.00
1030.0	2.09	1.72	1.97
1130.0	1.92	1.68	2.00
1230.0	1.83	1.72	2.08
1330.0	1.75	1.77	2.16
1430.0	1.73	1.82	2.23
1530.0	1.68	1.80	2.26
1630.0	1.55	1.76	2.29
1730.0	1.39	1.71	2.31
1830.0	1.22	1.68	2.33
1930.0	1.12	1.68	2.33
2030.0	1.19	1.71	2.35
2130.0	1.31	1.74	2.36
2230.0	1.45	1.77	2.34
2330.0	1.61	1.80	2.33
2430.0	1.85	1.90	2.34
2530.0	2.07	1.99	2.34
2630.0	2.28	2.08	2.34
2730.0	2.44	2.12	2.31
2830.0	2.60	2.11	2.23
2930.0	2.86	2.15	2.17
3030.0	3.19	2.26	2.15
3130.0	3.51	2.37	2.13
3210.0	3.83	2.48	2.11
3310.0	4.12	2.58	2.08
3390.0	4.25	2.63	2.05
3490.0	4.60	2.72	2.01
3570.0	4.62	2.74	1.97
3670.0	5.06	2.87	1.97
3750.0	5.28	2.94	1.96
3850.0	6.03	3.21	2.04
3930.0	6.61	3.43	2.12
4030.0	7.41	3.75	2.27
4110.0	8.16	4.04	2.42
4210.0	8.64	4.30	2.59
4290.0	9.38	4.64	2.80
4390.0	9.63	4.79	3.02

IF (OUT) (MHz)	IF VSWR @LO=3000MHz (:1) @LO (dBm)		
	+7	+10	+13
10.0	2.11	1.70	1.51
50.0	2.15	1.75	1.55
90.0	2.06	1.67	1.48
130.0	2.02	1.66	1.49
170.0	1.92	1.59	1.43
210.0	1.84	1.55	1.42
250.0	1.78	1.52	1.42
310.0	1.70	1.52	1.48
350.0	1.60	1.50	1.52
410.0	1.62	1.62	1.69
450.0	1.63	1.70	1.82
510.0	1.67	1.83	1.98
550.0	1.77	2.00	2.18
610.0	1.90	2.19	2.41
650.0	2.01	2.33	2.56
710.0	2.12	2.47	2.72
750.0	2.18	2.55	2.80
810.0	2.31	2.71	2.98
850.0	2.36	2.76	3.02
910.0	2.43	2.80	3.03
950.0	2.39	2.74	2.95
1010.0	2.39	2.71	2.89
1050.0	2.35	2.64	2.80
1110.0	2.23	2.45	2.58
1150.0	2.12	2.29	2.39
1210.0	1.93	2.05	2.12
1250.0	1.82	1.92	1.98
1310.0	1.64	1.70	1.74
1350.0	1.55	1.59	1.62
1410.0	1.53	1.57	1.58
1450.0	1.62	1.64	1.66
1510.0	1.86	1.87	1.88
1550.0	2.06	2.07	2.07
1610.0	2.44	2.44	2.43
1650.0	2.71	2.69	2.68
1710.0	3.14	3.11	3.10
1750.0	3.40	3.37	3.35
1810.0	3.81	3.77	3.75
1850.0	4.01	3.97	3.95
1910.0	4.38	4.34	4.32

Mini-Circuits®
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 minicircuits.com

Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	11	38	16	35	15	28	34	38	48	63
1	-	8	+0	38	37	39	36	34	38	36	47	52
2	79	74	66	59	70	> 74	71	59	45	56	> 74	59
3	> 90	72	> 74	73	55	73	> 74	> 74	> 74	> 74	70	68
4	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	74	> 74
5	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
6	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
7	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
8	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
9	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
10	> 90	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 2150.00 MHz; -10.00 dBm.**
LO IN: 2180.00 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -15.95 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	21	48	26	47	28	42	46	57	64	> 84
1	-	8	+0	40	37	42	37	37	42	42	59	62
2	59	67	61	49	68	76	58	54	41	51	62	58
3	> 90	53	63	54	37	55	71	59	58	56	56	52
4	> 90	76	73	> 84	80	68	78	> 84	83	64	52	60
5	> 90	78	80	77	79	74	55	77	> 84	79	71	81
6	> 90	84	76	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	74
7	> 90	> 84	> 84	> 84	> 84	> 84	> 84	> 84	69	> 84	> 84	> 84
8	> 90	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84
9	> 90	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	82	> 84
10	> 90	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84	> 84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 2150.00 MHz; .00 dBm.**
LO IN: 2180.00 MHz; +10.00 dBm
IF OUT: 30.00 MHz; -6.07 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.

Mini-Circuits®
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 minicircuits.com