

Frequency Mixer

MCA1-85L+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+1	+4	+7		+1	+4	+7	+1	+4	+7			+4
2800.1	2770.1	6.60	6.06	5.89	2770.1	45.69	39.50	36.81	12.36	11.58	10.35	2470.1	2500.1	9.06
3000.1	2970.1	6.28	5.85	5.74	2970.1	49.14	44.16	39.38	14.26	13.00	11.75	2570.1	2600.1	7.53
3500.1	3470.1	5.98	5.47	5.29	3470.1	34.75	39.32	38.41	13.49	13.49	13.58	2950.1	2980.1	8.42
4000.1	3970.1	7.23	6.67	6.48	3970.1	29.94	35.79	40.21	10.39	12.28	13.89	3010.1	3040.1	10.48
4500.1	4470.1	7.62	6.70	6.38	4470.1	25.02	28.08	31.07	14.59	16.04	17.67	3250.1	3280.1	8.86
5000.1	4970.1	7.69	6.55	6.17	4970.1	34.25	35.79	37.03	27.28	27.00	26.23	3770.1	3800.1	13.07
5500.1	5470.1	7.60	6.27	5.85	5470.1	44.87	42.78	40.91	37.93	33.73	31.19	3870.1	3900.1	13.67
6000.1	5970.1	8.02	6.26	5.74	5970.1	34.59	36.23	37.20	38.70	37.80	35.68	4670.1	4700.1	11.27
6500.1	6470.1	7.33	5.90	5.38	6470.1	32.69	36.41	39.09	48.92	47.06	43.95	5670.1	5700.1	8.02
6700.1	6670.1	7.76	5.84	5.40	6670.1	31.88	33.42	36.15	58.91	50.18	48.35	6070.1	6100.1	5.85
6800.1	6770.1	7.56	5.84	5.46	6770.1	31.79	33.65	36.09	50.51	46.65	46.81	6270.1	6300.1	6.34
6900.1	6870.1	7.27	5.88	5.51	6870.1	31.61	33.84	36.10	45.47	43.73	44.52	6470.1	6500.1	6.32
7000.1	6970.1	7.18	5.98	5.59	6970.1	31.74	33.85	36.07	42.13	41.08	42.59	6670.1	6700.1	6.16
7500.1	7470.1	8.34	6.80	6.30	7470.1	39.48	39.32	38.79	33.47	33.99	35.25	6870.1	6900.1	7.29
7600.1	7570.1	8.87	7.17	6.60	7570.1	41.43	39.67	38.05	32.98	33.16	34.31	7070.1	7100.1	8.76
7700.1	7670.1	9.56	7.41	6.86	7670.1	40.67	40.86	37.33	32.74	32.27	33.25	7270.1	7300.1	9.21
7800.1	7770.1	10.22	7.48	6.86	7770.1	38.38	40.67	36.19	32.98	31.25	31.74	7470.1	7500.1	10.23
7900.1	7870.1	10.36	7.28	6.63	7870.1	38.09	37.86	34.32	33.92	30.76	30.19	7670.1	7700.1	9.89
8000.1	7970.1	9.97	7.02	6.31	7970.1	36.83	35.05	32.74	36.56	30.85	29.14	8070.1	8100.1	8.23
8500.1	8470.1	10.33	6.93	6.24	8470.1	32.27	32.51	30.84	31.22	33.93	33.04	8670.1	8700.1	12.12

Frequency Mixer

MCA1-85L+

Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+1	+4	+7	+1	+4	+7		+1	+4	+7
2770.1	3.34	2.48	2.20	1.71	1.91	2.37	10.1	1.53	1.06	1.17
2970.1	2.89	2.48	2.17	1.55	1.84	2.36	30.1	1.56	1.06	1.18
3470.1	2.46	2.00	1.75	1.21	1.86	2.57	40.1	1.57	1.07	1.18
3970.1	2.93	2.46	2.33	1.70	2.08	2.71	50.1	1.58	1.07	1.19
4470.1	2.36	2.01	1.86	2.78	2.43	2.62	60.1	1.59	1.08	1.19
4970.1	2.94	2.60	2.34	3.60	2.28	2.21	70.1	1.58	1.09	1.20
5470.1	2.81	2.22	1.88	4.83	3.31	2.81	80.1	1.58	1.10	1.20
5970.1	3.40	2.15	1.94	10.69	4.41	3.00	90.1	1.58	1.11	1.21
6470.1	2.82	2.10	1.83	12.71	3.13	2.16	100.1	1.59	1.12	1.21
6670.1	3.18	2.18	1.90	7.20	3.06	2.20	200.1	1.65	1.19	1.26
6770.1	2.87	2.00	1.78	8.35	3.62	2.38	300.1	1.74	1.29	1.33
6870.1	2.35	2.07	1.81	6.68	3.35	2.32	400.1	1.86	1.38	1.38
6970.1	2.21	2.07	1.80	6.09	3.19	2.29	500.1	2.01	1.47	1.42
7470.1	1.96	1.83	1.65	4.05	3.16	2.25	600.1	2.22	1.57	1.46
7570.1	1.97	1.68	1.53	6.17	3.99	2.67	700.1	2.46	1.67	1.51
7670.1	1.92	1.63	1.48	5.97	4.00	2.70	800.1	2.65	1.77	1.56
7770.1	2.05	1.68	1.50	4.72	3.52	2.50	900.1	2.67	1.93	1.66
7870.1	2.36	1.70	1.51	5.04	3.52	2.44	1000.1	2.49	2.08	1.78
7970.1	2.84	1.77	1.56	6.15	3.68	2.47	1100.1	3.00	2.20	1.93
8470.1	3.52	2.22	1.87	6.68	4.99	3.03	1200.1	3.73	1.97	1.83

REV. X1
MCA1-85L+
061022
Page 2 of 2



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

