

# Frequency Mixer

# GRA-6

## Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
0.003	30.0	6.43	6.08	5.85	0.003	64.0	61.9	60.0	64.0	63.9	62.8
0.10	30.1	6.22	5.90	5.63	0.10	64.0	62.4	60.3	64.0	64.0	63.0
0.20	30.2	6.22	5.92	5.52	0.20	64.0	62.4	60.5	64.0	64.2	63.2
0.50	30.5	6.22	5.87	5.59	0.50	64.0	62.7	60.5	64.0	64.1	63.5
0.80	30.8	6.19	5.87	5.54	0.80	64.0	62.7	60.5	64.0	64.2	63.2
1.00	31.0	6.12	5.82	5.46	1.00	64.0	62.5	60.5	64.0	64.1	63.4
2.00	32.0	6.20	5.85	5.42	2.00	64.0	62.3	60.3	64.0	63.7	63.2
5.00	35.0	6.23	5.93	5.58	5.00	64.0	61.6	59.6	64.0	63.4	61.6
10.00	40.0	6.28	5.96	5.62	10.00	58.7	56.6	55.2	59.3	56.7	55.6
20.00	50.0	6.43	6.13	5.67	20.00	50.4	49.5	49.5	50.4	49.6	49.8
22.23	52.2	6.43	6.08	5.56	22.23	49.0	48.5	48.6	48.7	48.5	48.8
29.63	59.6	6.45	6.15	5.62	29.63	44.5	44.7	45.3	43.6	44.0	44.6
37.04	7.0	6.43	6.11	6.04	37.04	41.8	42.6	43.6	42.3	43.1	44.1
44.45	14.5	6.52	6.17	6.09	44.45	40.5	41.3	42.1	40.3	41.4	42.5
50.00	20.0	6.55	6.25	6.26	50.00	38.9	40.0	41.1	39.2	40.4	41.7
62.96	33.0	6.77	6.42	6.46	62.96	34.6	35.8	37.0	36.7	38.0	39.1
70.37	40.4	6.81	6.51	6.18	70.37	33.0	34.7	36.6	34.4	35.5	36.1
77.78	47.8	7.13	6.81	6.43	77.78	32.2	34.1	35.6	32.2	32.4	32.6
85.19	55.2	7.43	7.08	6.83	85.19	32.5	33.6	34.7	31.6	31.3	31.0
92.59	62.6	7.43	7.13	6.78	92.59	34.0	34.1	34.1	32.7	32.0	30.6
100.00	70.0	7.56	7.24	6.87	100.00	36.5	36.4	35.0	33.8	32.9	30.9

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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



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# Frequency Mixer

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## Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)					
	+4	+7	+10	+4	+7	+10		+7					
5.00	1.35	1.25	1.15	1.85	2.77	4.14	5.00	1.73	1.60	1.44	0.003	-241.9	0.00
7.80	1.36	1.25	1.15	1.80	2.73	3.93	7.80	1.74	1.61	1.45	0.007	-236.4	0.02
10.00	1.35	1.25	1.15	1.79	2.68	3.84	10.00	1.75	1.61	1.46	0.01	-235.9	0.02
13.38	1.35	1.25	1.15	1.74	2.59	3.67	13.38	1.76	1.63	1.48	0.04	-235.4	0.02
18.97	1.33	1.24	1.15	1.82	2.60	3.72	18.97	1.79	1.66	1.51	0.07	-235.4	0.02
20.00	1.33	1.23	1.14	1.81	2.58	3.75	20.00	1.79	1.67	1.51	0.10	-231.3	0.01
27.35	1.30	1.21	1.12	1.78	2.63	3.66	27.35	1.85	1.72	1.57	0.30	-226.9	0.01
32.94	1.27	1.18	1.10	1.79	2.61	3.53	32.94	1.92	1.77	1.63	0.70	-227.6	0.01
38.53	1.23	1.15	1.08	1.81	2.55	3.51	38.53	1.99	1.84	1.70	1.00	-227.4	0.01
41.32	1.21	1.13	1.07	1.81	2.55	3.48	41.32	2.02	1.88	1.74	5.00	-226.7	0.01
46.91	1.17	1.10	1.06	1.79	2.56	3.47	46.91	2.10	1.97	1.81	14.33	-227.4	0.03
50.00	1.15	1.08	1.06	1.80	2.56	3.45	50.00	2.17	2.02	1.86	23.85	-228.7	0.07
52.50	1.13	1.07	1.07	1.81	2.56	3.44	52.50	2.20	2.07	1.90	33.37	-225.1	0.09
60.88	1.08	1.06	1.11	1.83	2.56	3.42	60.88	2.32	2.18	2.03	42.89	-220.8	0.12
66.47	1.06	1.08	1.14	1.84	2.55	3.36	66.47	2.40	2.28	2.13	50.00	-219.7	0.08
72.06	1.05	1.10	1.17	1.86	2.53	3.30	72.06	2.47	2.35	2.22	61.92	-212.2	0.46
80.44	1.06	1.13	1.19	1.93	2.57	3.33	80.44	2.52	2.42	2.30	70.00	-209.4	0.60
88.82	1.08	1.15	1.21	2.05	2.71	3.45	88.82	2.52	2.43	2.33	80.96	-204.7	1.05
94.41	1.08	1.15	1.20	2.09	2.79	3.60	94.41	2.51	2.40	2.32	90.48	-188.4	1.33
100.00	1.07	1.14	1.18	2.16	2.86	3.68	100.00	2.49	2.39	2.30	100.00	-170.6	2.08

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