

# Frequency Mixer

# GRA-6H

## 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
0.01	10.0	5.92	5.62	5.42	0.01	43.3	46.6	49.3	46.9	51.1	54.8
0.05	10.1	5.73	5.43	5.23	0.05	42.6	45.6	48.2	46.8	51.5	56.3
1.00	11.0	5.50	5.12	4.91	1.00	42.6	45.6	48.1	47.0	51.7	56.5
2.00	12.0	5.61	5.21	5.02	2.00	42.6	45.5	48.0	47.1	51.7	56.6
5.18	15.2	5.54	5.17	4.96	5.18	42.3	45.3	47.5	46.9	51.9	55.6
8.63	18.6	5.44	5.12	4.94	8.63	42.0	44.7	46.0	46.7	50.8	50.8
10.35	20.4	5.33	4.99	4.86	10.35	42.0	44.6	45.3	46.8	50.7	47.9
12.08	22.1	5.46	5.14	4.98	12.08	41.4	43.0	42.1	46.7	47.7	45.2
15.52	25.5	5.54	5.22	5.04	15.52	41.1	43.0	42.8	45.6	47.4	45.0
18.97	29.0	5.56	5.23	5.06	18.97	40.7	41.4	40.6	43.9	42.5	41.1
20.70	30.7	5.46	5.15	5.00	20.70	40.7	41.9	42.2	43.1	42.0	41.1
24.14	34.1	5.33	5.09	4.98	24.14	40.5	40.5	39.7	40.7	39.6	38.9
29.32	19.3	5.42	5.11	4.98	29.32	39.4	39.4	38.1	39.9	38.6	37.6
31.04	21.0	5.43	5.15	5.02	31.04	38.0	38.0	36.6	38.3	37.4	36.4
34.49	24.5	5.32	5.06	4.95	34.49	37.4	38.0	37.2	37.3	37.2	36.9
37.93	27.9	5.31	5.10	5.02	37.93	36.6	36.8	36.5	36.1	35.5	36.0
41.38	31.4	5.37	5.14	5.06	41.38	35.3	35.5	34.7	35.3	34.7	34.0
44.83	34.8	5.41	5.19	5.11	44.83	33.7	34.2	34.0	34.1	33.9	33.7
46.55	36.6	5.45	5.20	5.11	46.55	32.4	32.8	32.3	33.0	32.7	32.4
50.00	40.0	5.49	5.28	5.17	50.00	32.2	32.4	31.4	32.6	32.1	31.7

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant  
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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)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
5.00	1.56	1.34	1.20	1.20	1.49	2.48	5.00	1.64	1.45	1.34	0.01	-951.0	-1.88
7.43	1.56	1.34	1.20	1.23	1.47	2.49	7.43	1.64	1.46	1.34	0.10	-976.2	-3.28
8.65	1.56	1.34	1.21	1.22	1.42	2.46	8.65	1.64	1.46	1.35	1.00	-978.6	-3.33
10.00	1.56	1.34	1.21	1.23	1.46	2.40	10.00	1.65	1.46	1.35	3.34	-980.3	-3.40
12.30	1.55	1.33	1.20	1.23	1.43	2.39	12.30	1.66	1.47	1.36	5.00	-977.3	-3.40
15.95	1.54	1.33	1.20	1.24	1.40	2.30	15.95	1.68	1.49	1.38	8.34	972.7	-3.39
18.38	1.53	1.32	1.20	1.27	1.39	2.27	18.38	1.69	1.50	1.39	10.00	-983.5	-3.50
20.81	1.52	1.32	1.19	1.25	1.40	2.24	20.81	1.71	1.52	1.40	11.67	-985.1	-3.64
23.24	1.51	1.30	1.18	1.25	1.40	2.22	23.24	1.72	1.53	1.43	15.01	-1006.1	-3.74
25.68	1.49	1.29	1.18	1.22	1.43	2.21	25.68	1.73	1.55	1.44	18.34	-1002.7	-3.19
28.11	1.48	1.28	1.17	1.20	1.45	2.24	28.11	1.75	1.56	1.46	21.67	-1023.0	-3.39
31.76	1.45	1.26	1.15	1.18	1.49	2.26	31.76	1.77	1.59	1.49	25.01	-1015.6	-3.74
35.41	1.43	1.25	1.15	1.19	1.52	2.28	35.41	1.81	1.63	1.53	28.34	-1010.0	-4.33
37.84	1.41	1.24	1.14	1.19	1.54	2.27	37.84	1.84	1.66	1.55	31.67	-1002.7	-4.53
39.05	1.40	1.23	1.14	1.18	1.55	2.30	39.05	1.85	1.68	1.57	35.00	-1008.7	-5.81
41.49	1.39	1.23	1.14	1.19	1.55	2.31	41.49	1.89	1.70	1.60	38.34	-1000.3	-6.67
45.14	1.36	1.21	1.14	1.21	1.56	2.32	45.14	1.95	1.75	1.65	41.67	-1000.5	-7.57
46.35	1.35	1.21	1.15	1.22	1.56	2.32	46.35	1.94	1.76	1.67	45.00	-993.3	-7.78
48.78	1.34	1.21	1.15	1.25	1.57	2.31	48.78	1.99	1.81	1.71	48.33	-982.3	-6.82
50.00	1.34	1.20	1.16	1.26	1.58	2.31	50.00	2.02	1.83	1.73	50.00	-975.3	-6.43

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