

Frequency Mixer

GRA-8

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
0.001	3.0	5.43	5.26	4.97	0.001	63.5	67.3	68.1	64.0	67.0	70.0
0.002	3.0	5.18	4.96	4.76	0.002	63.3	67.2	68.0	64.0	67.0	70.0
0.005	3.0	4.98	4.92	4.61	0.005	63.5	67.2	67.7	64.0	67.0	70.0
0.01	3.0	4.96	4.88	4.59	0.01	64.0	67.0	67.9	64.0	67.0	70.0
0.02	3.0	5.04	4.84	4.64	0.02	64.0	67.0	68.0	64.0	67.0	70.0
0.05	3.1	5.04	4.84	4.61	0.05	64.0	66.9	68.4	64.0	67.0	70.0
0.10	3.1	5.00	4.79	4.59	0.10	64.0	67.0	68.5	64.0	67.0	70.0
0.20	3.2	5.06	4.88	4.63	0.20	64.0	67.0	68.6	64.0	67.0	70.0
0.50	3.5	5.07	4.86	4.64	0.50	64.0	67.0	68.8	64.0	67.0	70.0
0.70	3.7	5.11	4.83	4.66	0.70	64.0	67.0	68.8	64.0	67.0	70.0
1.00	4.0	5.13	4.88	4.66	1.00	64.0	66.6	67.8	64.0	67.0	70.0
1.43	4.4	5.12	4.91	4.71	1.43	64.0	65.9	65.9	64.0	67.0	70.0
2.00	5.0	5.16	4.91	4.72	2.00	63.7	64.5	64.0	64.0	67.0	70.0
2.86	5.9	5.15	4.97	4.78	2.86	59.1	57.6	56.3	64.0	67.0	70.0
4.29	7.3	5.22	5.16	4.88	4.29	54.4	53.0	52.3	64.0	67.0	70.0
5.00	8.0	5.24	5.17	4.89	5.00	51.1	50.1	50.2	64.0	67.0	70.0
6.43	9.4	5.36	5.18	4.97	6.43	48.8	48.6	48.8	64.0	67.0	70.0
7.14	4.1	5.24	5.21	4.95	7.14	45.7	45.6	46.0	64.0	67.0	70.0
8.57	5.6	5.34	5.23	5.11	8.57	43.0	43.1	43.6	64.0	67.0	70.0
10.00	7.0	5.54	5.22	5.22	10.00	42.0	42.0	42.2	64.0	67.0	70.0

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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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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		
0.10	1.58	1.41	1.30	1.78	3.30	7.11	0.10	1.62	1.47	1.38	0.001	-275.2	-0.11
0.20	1.54	1.37	1.27	1.64	2.70	4.36	0.20	1.58	1.44	1.35	0.005	-271.2	-0.13
0.42	1.54	1.38	1.28	1.57	2.54	3.76	0.42	1.58	1.43	1.35	0.01	-264.3	-0.13
0.74	1.53	1.37	1.28	1.55	2.46	3.67	0.74	1.59	1.44	1.36	0.02	-261.9	-0.13
1.00	1.54	1.37	1.28	1.56	2.41	3.56	1.00	1.58	1.44	1.36	0.05	-262.0	-0.12
1.70	1.54	1.38	1.29	1.51	2.32	3.35	1.70	1.59	1.44	1.37	0.10	-259.7	-0.12
2.00	1.53	1.38	1.28	1.50	2.29	3.30	2.00	1.59	1.44	1.36	0.20	-261.0	-0.12
2.66	1.54	1.38	1.29	1.46	2.21	3.16	2.66	1.60	1.45	1.37	0.50	-262.4	-0.13
3.29	1.54	1.37	1.28	1.39	2.10	2.93	3.29	1.60	1.45	1.37	0.70	-264.8	-0.13
4.25	1.53	1.37	1.28	1.31	1.98	2.76	4.25	1.62	1.47	1.39	1.00	-265.8	-0.13
5.00	1.53	1.37	1.29	1.29	1.95	2.67	5.00	1.64	1.50	1.42	2.00	-266.1	-0.13
5.53	1.52	1.37	1.28	1.29	1.94	2.63	5.53	1.64	1.50	1.42	3.33	-259.8	-0.13
6.17	1.52	1.36	1.28	1.31	1.96	2.64	6.17	1.65	1.52	1.43	4.17	-258.1	-0.12
7.00	1.50	1.37	1.28	1.35	2.01	2.74	7.00	1.68	1.55	1.46	5.00	-255.2	-0.12
7.45	1.50	1.36	1.28	1.38	2.03	2.75	7.45	1.69	1.56	1.47	5.83	-250.6	-0.12
8.09	1.49	1.36	1.28	1.39	2.02	2.71	8.09	1.71	1.58	1.49	6.67	-246.6	-0.09
8.40	1.49	1.36	1.27	1.39	1.98	2.67	8.40	1.72	1.58	1.51	7.00	-247.1	-0.10
9.04	1.48	1.36	1.28	1.35	1.94	2.58	9.04	1.74	1.62	1.54	7.50	-246.8	-0.13
9.36	1.48	1.36	1.28	1.34	1.92	2.55	9.36	1.75	1.61	1.54	8.33	-247.7	-0.09
10.00	1.48	1.35	1.27	1.34	1.90	2.51	10.00	1.78	1.65	1.57	10.00	-247.8	-0.11

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