

Frequency Mixer

ADE-ED6970

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
77.7	107.7	7.05	6.15	5.85	107.7	47.2	47.8	48.4	53.2	54.7	56.0
145.5	175.5	6.94	6.04	5.84	175.5	49.2	49.3	48.9	48.5	50.4	52.6
213.2	243.2	6.69	5.99	5.79	243.2	53.3	51.1	48.8	45.7	48.6	50.5
280.9	310.9	6.70	6.10	5.90	310.9	52.3	50.5	46.8	44.2	47.0	49.0
348.6	378.6	6.91	6.31	6.01	378.6	50.7	50.7	45.3	42.0	44.8	46.7
416.4	446.4	6.78	6.28	6.08	446.4	52.0	46.8	41.8	40.4	42.4	44.0
484.1	514.1	6.74	6.24	5.94	514.1	47.9	41.9	37.3	38.8	40.5	42.2
551.8	581.8	7.16	6.66	6.26	581.8	44.6	40.6	36.6	37.1	38.5	39.8
619.5	649.5	7.01	6.61	6.31	649.5	40.6	35.7	32.4	36.6	38.0	39.2
687.3	717.3	6.84	6.34	6.14	717.3	36.7	31.4	28.9	35.3	36.8	37.7
699.0	729.0	6.92	6.42	6.12	729.0	35.9	31.2	28.6	35.2	36.5	37.4
709.0	739.0	6.87	6.37	6.07	739.0	35.3	30.9	28.3	35.3	36.7	37.6
755.0	785.0	6.97	6.37	6.17	785.0	34.3	29.7	27.1	34.8	36.2	37.4
822.7	852.7	7.19	6.59	6.19	852.7	32.1	28.7	25.6	33.9	35.4	36.4
860.0	890.0	7.16	6.56	6.26	890.0	31.5	28.4	25.3	33.4	34.9	35.9
870.0	900.0	7.29	6.69	6.29	900.0	31.2	28.2	25.3	33.5	34.8	35.9
890.5	920.5	7.14	6.74	6.24	920.5	30.6	28.0	25.2	33.6	35.0	36.0
958.2	988.2	7.13	6.83	6.43	988.2	28.0	25.6	23.5	33.8	35.2	36.2
970.0	1000.0	7.38	6.78	6.48	1000.0	27.7	25.1	23.1	33.4	35.0	36.0
1025.9	1055.9	7.26	6.86	6.66	1055.9	25.7	22.7	20.5	34.3	36.6	37.4

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
107.7	1.74	1.30	1.12	2.80	2.08	2.30	50.0	1.21	1.12	1.08
175.5	1.67	1.29	1.14	2.08	1.71	2.08	58.4	1.21	1.12	1.08
243.2	1.60	1.31	1.19	1.84	1.57	2.04	87.6	1.21	1.12	1.08
310.9	1.54	1.32	1.20	1.63	1.46	2.03	100.0	1.20	1.12	1.07
378.6	1.63	1.39	1.26	1.54	1.44	1.99	116.8	1.20	1.12	1.08
446.4	1.65	1.45	1.33	1.41	1.47	2.20	131.0	1.20	1.12	1.08
514.1	1.65	1.40	1.26	1.26	1.53	2.30	145.9	1.20	1.12	1.08
581.8	1.81	1.59	1.44	1.23	1.50	2.18	150.0	1.20	1.12	1.08
649.5	1.80	1.59	1.47	1.17	1.45	2.04	175.1	1.20	1.13	1.09
717.3	1.68	1.47	1.38	1.09	1.46	2.06	204.2	1.21	1.13	1.09
729.0	1.69	1.48	1.39	1.05	1.44	2.01	233.4	1.21	1.14	1.10
739.0	1.66	1.46	1.37	1.02	1.43	2.03	262.6	1.22	1.15	1.10
785.0	1.71	1.47	1.38	1.04	1.51	2.10	291.7	1.23	1.16	1.11
852.7	1.80	1.49	1.36	1.07	1.57	2.10	320.9	1.24	1.16	1.11
890.0	1.77	1.49	1.32	1.05	1.64	2.18	350.1	1.25	1.17	1.11
900.0	1.78	1.51	1.33	1.06	1.62	2.14	379.2	1.25	1.17	1.11
920.5	1.76	1.52	1.32	1.08	1.59	2.14	408.4	1.27	1.19	1.12
988.2	1.75	1.52	1.34	1.15	1.69	2.32	437.5	1.28	1.20	1.13
1000.0	1.75	1.53	1.35	1.13	1.66	2.23	466.7	1.30	1.21	1.13
1055.9	1.69	1.45	1.28	1.18	1.74	2.35	495.9	1.30	1.21	1.13