

Frequency Mixer

ADE-ED6989/1

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
406.9	477.9	8.02	6.32	6.02	477.9	38.4	42.3	46.8	35.9	38.2	37.8
429.0	500.0	7.09	6.09	5.89	500.0	37.8	42.3	47.8	36.0	37.2	37.0
508.4	579.4	6.72	6.02	5.72	579.4	36.6	39.4	44.3	35.5	36.6	36.8
609.8	680.8	6.42	5.72	5.42	680.8	35.0	39.5	44.3	33.8	34.2	34.3
679.0	750.0	6.45	5.75	5.45	750.0	34.4	38.5	44.3	32.7	33.6	34.3
711.3	782.3	6.07	5.57	5.27	782.3	34.4	38.7	44.8	32.3	33.0	33.5
812.8	883.8	5.84	5.44	5.24	883.8	34.8	38.2	42.8	32.3	32.5	32.7
914.3	985.3	6.13	5.53	5.23	985.3	34.9	41.1	47.0	31.7	32.3	32.6
929.0	1000.0	6.23	5.63	5.33	1000.0	34.6	40.1	45.5	31.6	32.2	32.5
1015.7	1086.7	6.90	6.00	5.60	1086.7	31.6	35.3	39.2	30.3	31.4	32.3
1117.2	1188.2	6.88	5.98	5.48	1188.2	29.3	32.5	36.2	28.5	29.7	31.1
1179.0	1250.0	6.94	5.94	5.44	1250.0	28.1	30.9	34.5	28.0	28.8	30.5
1218.7	1289.7	6.88	5.98	5.38	1289.7	27.2	30.3	33.8	27.4	28.4	30.1
1320.2	1391.2	6.88	5.88	5.28	1391.2	25.6	28.9	32.6	26.3	27.6	29.2
1421.6	1492.6	6.96	6.06	5.56	1492.6	24.7	27.2	30.5	25.9	27.5	29.4
1429.0	1500.0	6.79	6.09	5.49	1500.0	25.0	27.4	30.5	26.0	27.6	29.4
1523.1	1594.1	6.99	6.59	6.19	1594.1	26.5	28.7	30.7	25.7	27.1	29.0
1624.6	1695.6	7.13	6.83	6.63	1695.6	27.6	29.8	31.5	26.3	28.1	30.2
1726.1	1797.1	7.69	7.29	6.99	1797.1	26.8	29.4	31.4	26.3	28.7	31.2
1827.5	1898.5	8.39	7.89	7.69	1898.5	26.1	28.5	30.5	25.9	28.4	31.0

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
477.9	3.95	2.46	2.35	4.32	3.21	2.96	100.0	2.12	1.66	1.43
500.0	5.66	3.01	3.32	3.64	3.01	2.80	106.2	2.16	1.68	1.44
579.4	3.50	2.20	2.40	3.21	2.76	2.58	158.7	2.08	1.65	1.42
680.8	2.84	2.04	2.37	2.61	2.35	2.25	211.3	2.04	1.64	1.42
750.0	2.20	1.76	2.01	2.46	2.20	2.08	250.0	2.03	1.65	1.44
782.3	2.52	2.06	2.68	2.27	2.03	1.92	263.9	2.04	1.66	1.45
883.8	2.25	2.06	2.96	2.04	1.89	1.85	316.5	2.06	1.70	1.51
985.3	2.01	1.97	2.84	1.94	1.81	1.75	369.1	2.06	1.74	1.55
1000.0	1.82	1.81	2.37	1.96	1.84	1.78	421.6	2.12	1.77	1.60
1086.7	1.77	1.92	2.61	2.04	1.89	1.78	474.2	2.18	1.84	1.68
1188.2	1.61	1.94	2.55	1.78	1.62	1.50	500.0	2.20	1.85	1.64
1250.0	1.70	2.25	3.50	1.76	1.54	1.40	526.8	2.25	1.92	1.77
1289.7	1.57	2.04	2.84	1.67	1.46	1.32	579.4	2.32	2.01	1.88
1391.2	1.65	2.35	3.32	1.73	1.47	1.32	631.9	2.30	2.04	1.94
1492.6	1.78	2.61	3.71	2.01	1.82	1.69	684.5	2.32	2.10	2.03
1500.0	1.81	2.61	3.79	2.04	1.89	1.75	737.1	2.27	2.10	2.08
1594.1	1.91	2.80	3.95	2.20	2.20	2.18	789.7	2.20	2.08	2.10
1695.6	2.08	2.96	4.12	2.35	2.35	2.40	842.3	2.16	2.08	2.14
1797.1	2.32	3.32	4.53	2.61	2.61	2.61	894.8	2.12	2.08	2.20
1898.5	2.65	3.64	4.89	2.84	2.76	2.72	947.4	2.03	2.03	2.20