

Frequency Mixer

ADE-EDR5141/1

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
780.1	1430.0	8.34	7.56	7.02	700.1	35.2	36.7	37.7	29.8	30.5	30.5
790.1	1420.0	8.37	7.61	7.20	720.1	35.1	36.7	38.1	29.2	30.3	30.7
800.1	1410.0	8.28	7.69	7.05	740.1	35.0	36.6	37.9	28.8	30.0	30.6
806.3	1400.0	8.37	7.70	7.17	760.1	35.1	36.4	37.4	28.2	29.4	30.0
815.1	1390.0	8.27	7.72	7.09	780.1	34.9	36.1	37.0	27.6	28.6	29.1
830.1	1380.0	8.30	7.68	7.18	800.1	34.8	36.3	37.2	27.2	28.3	29.1
832.5	1370.0	8.35	7.73	7.27	820.1	34.8	36.5	37.5	26.7	28.1	29.0
845.1	1360.0	8.32	7.74	7.31	840.1	34.8	36.5	37.6	26.5	27.8	28.8
850.1	1350.0	8.33	7.75	7.28	860.1	34.7	36.6	37.6	26.0	27.1	28.1
865.1	1340.0	8.39	7.81	7.42	880.1	34.6	36.5	37.6	25.3	26.5	27.4
867.5	1330.0	8.41	7.85	7.48	900.1	34.6	36.7	38.0	25.0	26.3	27.4
870.1	1320.0	8.39	7.85	7.41	950.1	34.4	36.7	38.1	24.7	25.3	26.5
885.1	1310.0	8.47	7.99	7.57	972.1	34.3	36.6	38.0	24.4	24.7	25.6
900.1	1300.0	8.50	8.01	7.58	994.1	34.2	36.8	38.4	24.1	24.6	25.3
902.5	1290.0	8.57	8.12	7.61	1016.1	34.1	36.9	38.7	24.1	24.7	25.2
911.3	1280.0	8.41	7.90	7.45	1038.1	34.0	36.8	38.7	24.0	24.6	25.0
920.1	1270.0	8.53	8.03	7.57	1060.1	33.9	36.6	38.8	23.8	24.4	24.6
1000.1	1500.0	8.28	7.32	6.73	1082.1	33.7	36.5	39.0	23.2	24.1	24.4
1100.1	1550.0	8.34	7.25	6.73	1104.1	33.6	36.2	39.2	23.0	24.1	24.7
1200.1	1600.0	8.48	7.34	6.77	1126.1	33.5	36.0	38.8	22.8	24.1	24.8
1270.1	920.0	8.56	7.75	7.30	1148.1	33.5	35.8	38.5	22.7	23.8	24.6
1280.1	911.3	8.57	7.80	7.46	1170.1	33.2	35.6	38.2	22.2	23.6	24.2
1290.1	902.5	8.52	7.72	7.30	1192.1	33.2	35.6	37.9	22.0	23.4	24.5
1300.1	900.1	8.40	7.58	7.19	1214.1	32.9	35.6	37.8	21.8	23.5	24.6
1310.1	885.1	8.32	7.50	7.19	1236.1	32.7	35.4	37.6	21.7	23.2	24.5
1320.1	870.1	8.32	7.57	7.24	1258.1	32.6	35.4	37.6	21.4	22.9	24.1
1330.1	867.2	8.36	7.60	7.42	1280.1	32.4	35.2	37.6	21.2	22.8	24.1
1340.1	865.1	8.41	7.66	7.35	1300.1	32.0	35.0	37.8	21.0	22.6	24.1
1350.1	850.1	8.44	7.71	7.42	1320.1	31.8	35.0	37.9	21.0	22.7	24.1
1360.1	845.1	8.52	7.86	7.52	1340.1	31.6	34.8	38.0	20.9	22.7	24.2
1370.1	832.2	8.54	7.85	7.59	1360.1	31.5	34.6	37.9	20.8	22.5	24.2
1380.1	830.1	8.57	7.86	7.60	1380.1	31.1	34.4	37.9	20.6	22.6	24.5
1390.1	815.1	8.44	7.80	7.77	1400.1	30.9	34.1	38.0	20.6	22.9	25.0
1400.1	806.1	8.33	7.72	7.68	1420.1	30.6	33.8	38.0	20.5	22.9	25.2
1410.1	800.1	8.36	7.82	7.56	1450.1	30.1	33.7	38.2	20.4	23.1	25.3
1420.1	790.1	8.38	7.85	7.65	1480.1	29.6	33.3	38.5	20.3	23.1	25.2
1430.1	780.0	8.46	7.93	7.72	1510.1	29.1	33.0	38.3	20.2	22.9	25.2
1500.1	1000.0	9.05	8.25	7.63	1540.1	28.6	32.8	38.2	19.9	22.6	24.8
1550.1	1100.0	9.64	8.96	8.35	1570.1	28.0	32.3	38.0	19.3	22.1	24.3
1600.1	1200.0	10.20	9.60	9.01	1600.1	27.7	32.0	38.0	19.2	21.8	24.2

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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
700.1	1.09	1.16	1.27	1.44	1.92	2.53	200.1	3.36	2.67	2.07
720.1	1.10	1.17	1.28	1.44	1.79	2.31	218.1	3.29	2.63	2.05
740.1	1.11	1.18	1.29	1.47	1.87	2.50	236.1	3.15	2.55	2.00
760.1	1.12	1.19	1.29	1.53	2.02	2.84	254.1	3.09	2.52	1.99
780.1	1.13	1.19	1.30	1.56	2.00	2.74	272.1	3.17	2.56	2.01
800.1	1.14	1.20	1.30	1.52	1.86	2.35	290.1	3.22	2.59	2.01
820.1	1.15	1.21	1.31	1.56	1.87	2.34	308.1	3.12	2.54	1.98
840.1	1.16	1.22	1.32	1.65	2.04	2.73	326.1	3.03	2.47	1.95
860.1	1.18	1.23	1.33	1.71	2.14	2.87	344.1	3.03	2.46	1.95
880.1	1.19	1.24	1.33	1.68	2.03	2.57	362.1	3.11	2.50	1.97
900.1	1.20	1.25	1.34	1.66	1.97	2.43	380.1	3.11	2.50	1.97
950.1	1.25	1.29	1.37	1.85	2.40	3.16	400.1	3.00	2.44	1.94
972.1	1.27	1.31	1.38	1.77	2.19	2.73	406.0	2.96	2.42	1.92
994.1	1.30	1.34	1.42	1.73	2.17	2.67	411.9	2.94	2.41	1.91
1016.1	1.33	1.37	1.44	1.85	2.42	3.13	417.7	2.93	2.40	1.91
1038.1	1.36	1.40	1.47	1.95	2.51	3.45	423.6	2.92	2.40	1.90
1060.1	1.40	1.43	1.50	1.85	2.26	2.93	429.5	2.92	2.40	1.91
1082.1	1.44	1.47	1.54	1.81	2.24	2.81	435.4	2.93	2.41	1.91
1104.1	1.48	1.51	1.58	1.95	2.54	3.38	441.3	2.95	2.42	1.91
1126.1	1.52	1.54	1.61	2.04	2.62	3.58	447.2	2.97	2.42	1.91
1148.1	1.56	1.59	1.65	1.94	2.40	3.05	453.0	2.97	2.43	1.92
1170.1	1.64	1.66	1.73	1.93	2.31	2.94	458.9	2.98	2.44	1.92
1192.1	1.68	1.71	1.77	2.10	2.65	3.47	464.8	2.96	2.43	1.92
1214.1	1.74	1.75	1.80	2.16	2.69	3.64	470.7	2.94	2.41	1.91
1236.1	1.81	1.82	1.87	2.06	2.47	3.10	476.6	2.93	2.41	1.91
1258.1	1.90	1.90	1.96	2.04	2.41	2.99	482.5	2.88	2.39	1.90
1280.1	1.96	1.96	2.02	2.23	2.71	3.46	488.3	2.86	2.37	1.89
1300.1	2.01	2.01	2.06	2.28	2.77	3.59	494.2	2.84	2.35	1.89
1320.1	2.07	2.08	2.12	2.16	2.55	3.14	500.1	2.82	2.35	1.88
1340.1	2.18	2.17	2.21	2.11	2.45	2.96	520.1	2.83	2.34	1.88
1360.1	2.26	2.24	2.29	2.24	2.60	3.23	538.1	2.84	2.35	1.90
1380.1	2.30	2.30	2.33	2.37	2.73	3.47	556.1	2.81	2.33	1.89
1400.1	2.38	2.35	2.37	2.32	2.54	3.25	574.1	2.74	2.30	1.87
1420.1	2.51	2.48	2.51	2.23	2.43	2.93	592.1	2.72	2.29	1.87
1450.1	2.61	2.62	2.62	2.34	2.53	3.14	610.1	2.73	2.29	1.86
1480.1	2.78	2.72	2.75	2.42	2.61	3.31	628.1	2.75	2.30	1.87
1510.1	2.96	2.89	2.91	2.32	2.42	2.96	646.1	2.73	2.29	1.88
1540.1	3.06	3.05	3.00	2.44	2.56	3.13	664.1	2.68	2.27	1.85
1570.1	3.29	3.18	3.15	2.54	2.65	3.24	682.1	2.68	2.27	1.86
1600.1	3.49	3.38	3.34	2.49	2.46	2.92	700.1	2.70	2.28	1.87