

Frequency Mixer

ADE-ED6803/1

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)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
0.5	30.5	8.32	8.02	7.92	30.5	68.8	69.7	70.2	65.2	62.9	61.1
1.0	31.0	7.57	7.27	7.17	31.0	68.7	69.5	70.0	65.1	63.1	61.0
5.0	35.0	6.62	6.32	6.22	35.0	68.2	68.9	69.3	64.8	62.3	60.3
10.0	40.0	6.57	6.27	6.17	40.0	66.6	67.6	68.6	63.4	60.7	59.2
50.0	80.0	6.66	6.36	6.36	80.0	60.9	61.4	62.3	58.8	55.6	54.1
115.9	145.9	6.50	6.30	6.20	145.9	55.5	56.6	58.0	53.6	51.4	49.7
231.7	261.7	6.64	6.44	6.34	261.7	50.9	52.1	53.6	49.6	47.5	45.5
347.5	377.5	6.69	6.59	6.49	377.5	47.6	49.1	50.9	47.4	45.4	43.4
463.2	493.2	6.69	6.49	6.29	493.2	45.0	46.3	47.8	45.5	43.4	41.1
579.0	609.0	6.84	6.64	6.44	609.0	43.1	44.5	45.9	44.9	42.0	39.5
694.8	724.8	6.64	6.44	6.24	724.8	41.1	42.4	43.4	42.7	40.6	38.4
810.6	840.6	6.71	6.51	6.21	840.6	39.2	40.2	40.7	40.0	37.4	35.2
926.4	956.4	6.61	6.31	6.11	956.4	37.8	38.5	38.4	38.7	35.2	32.9
1042.2	1072.2	6.68	6.18	5.88	1072.2	37.3	38.1	37.8	35.5	33.2	31.2
1157.9	1187.9	7.13	6.53	6.03	1187.9	36.3	37.5	37.6	32.0	30.7	29.0
1270.0	1300.0	7.41	6.91	6.41	1300.0	35.9	37.0	36.9	30.7	29.0	27.2
1389.5	1419.5	7.76	7.26	6.76	1419.5	37.2	38.3	38.1	29.7	28.2	26.4
1500.0	1530.0	8.15	7.65	7.25	1530.0	40.5	40.8	40.8	29.4	27.4	25.7
1505.3	1535.3	8.14	7.74	7.34	1535.3	40.9	40.9	40.6	29.2	27.3	25.7
1600.0	1630.0	8.44	8.04	7.74	1630.0	42.6	37.8	36.0	27.6	25.9	24.4

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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16
30.5	2.27	2.20	2.18	1.69	2.35	3.57	1.0	2.55	2.18	1.81
31.0	1.77	1.73	1.69	1.64	2.37	3.50	5.0	2.55	2.14	1.77
35.0	1.54	1.46	1.40	1.63	2.37	3.57	10.0	2.52	2.14	1.77
40.0	1.54	1.46	1.39	1.65	2.37	3.57	50.0	2.35	2.04	1.71
80.0	1.43	1.36	1.30	1.67	2.40	3.44	53.8	2.43	2.06	1.73
145.9	1.44	1.38	1.34	1.71	2.49	3.86	107.6	2.37	2.06	1.71
261.7	1.48	1.44	1.41	1.87	2.58	3.79	161.3	2.27	1.97	1.66
377.5	1.52	1.49	1.46	1.92	2.61	3.64	215.1	2.18	1.91	1.62
493.2	1.52	1.48	1.45	2.14	3.01	4.22	268.8	2.12	1.85	1.59
609.0	1.52	1.49	1.46	2.37	3.32	4.77	322.6	2.08	1.81	1.55
724.8	1.45	1.41	1.40	2.46	3.26	4.32	376.3	2.01	1.77	1.51
840.6	1.37	1.35	1.34	2.58	3.32	4.42	430.1	1.97	1.74	1.49
956.4	1.32	1.31	1.31	3.16	4.22	6.05	483.8	1.92	1.68	1.46
1072.2	1.15	1.13	1.16	3.57	4.64	6.26	500.0	1.89	1.66	1.44
1187.9	1.07	1.05	1.15	3.57	4.32	5.66	537.6	1.85	1.62	1.41
1300.0	1.27	1.28	1.33	3.71	4.64	5.85	591.3	1.78	1.56	1.39
1419.5	1.62	1.62	1.67	3.95	4.64	5.66	600.0	1.77	1.54	1.38
1530.0	2.01	2.03	2.04	4.12	4.64	5.85	645.1	1.70	1.51	1.36
1535.3	2.03	2.03	2.06	4.03	4.89	5.85	698.8	1.64	1.45	1.35
1630.0	2.27	2.30	2.30	4.22	5.17	6.05	752.5	1.55	1.39	1.34