

Frequency Mixer

ADE-ED6685/1

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
100.0	55.0	6.65	6.35	6.25	55.0	64.4	64.4	64.4	54.7	52.1	51.1
145.0	100.0	6.79	6.39	6.39	100.0	59.7	60.0	60.2	49.8	46.6	45.7
164.5	119.5	6.62	6.32	6.32	119.5	58.6	59.4	59.8	48.7	45.6	44.9
274.0	229.0	6.58	6.38	6.38	229.0	54.6	54.9	55.2	41.2	40.3	39.5
383.5	338.5	6.73	6.43	6.33	338.5	52.4	53.0	54.2	38.4	37.3	36.4
493.0	448.0	6.65	6.35	6.25	448.0	48.4	49.2	49.8	36.8	35.9	35.3
595.0	550.0	6.73	6.33	6.23	550.0	45.2	45.9	46.2	35.8	34.9	34.0
602.5	557.5	6.72	6.32	6.22	557.5	44.9	45.9	46.2	35.6	34.5	33.7
650.0	605.0	6.69	6.39	6.19	605.0	43.7	44.8	45.6	34.9	33.5	32.4
712.0	667.0	6.51	6.21	6.11	667.0	41.4	42.6	43.0	34.2	32.4	31.5
750.0	705.0	6.68	6.38	6.28	705.0	40.3	41.5	41.9	35.6	33.9	32.7
821.5	776.5	6.69	6.29	5.99	776.5	39.3	39.9	40.0	33.5	31.4	30.2
900.0	855.0	6.20	5.70	5.50	855.0	37.4	37.5	37.4	32.3	29.8	28.8
931.0	886.0	6.11	5.61	5.31	886.0	37.5	37.3	37.0	32.6	30.4	29.5
945.0	900.0	6.15	5.55	5.45	900.0	37.6	37.6	37.3	32.1	29.8	28.8
1040.5	995.5	6.58	5.78	5.48	995.5	36.4	36.0	36.0	30.4	28.1	26.9
1150.0	1105.0	7.00	6.00	5.80	1105.0	35.8	35.7	35.5	27.4	26.1	25.0
1259.5	1214.5	7.34	6.64	6.14	1214.5	37.0	36.9	36.5	27.3	25.6	24.5
1300.0	1255.0	7.27	6.67	6.27	1255.0	37.0	37.0	36.6	26.2	24.1	22.8
1369.0	1324.0	7.38	6.88	6.68	1324.0	37.8	37.3	36.8	26.3	23.6	22.5

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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
55.0	1.52	2.30	3.06	1.48	1.37	1.33	1.0	1.12	1.08	1.20
100.0	1.46	2.65	3.71	1.47	1.37	1.32	1.2	1.12	1.08	1.19
119.5	1.54	2.25	2.92	1.51	1.39	1.35	2.9	1.11	1.09	1.20
229.0	1.71	2.46	3.26	1.46	1.39	1.37	6.7	1.10	1.10	1.21
338.5	1.67	3.16	4.77	1.47	1.42	1.39	10.0	1.10	1.10	1.21
448.0	1.61	2.96	4.03	1.46	1.40	1.37	15.6	1.10	1.10	1.21
550.0	1.80	2.76	3.50	1.50	1.44	1.41	30.0	1.10	1.10	1.21
557.5	1.89	2.72	3.44	1.48	1.43	1.40	36.1	1.10	1.10	1.21
605.0	1.88	3.26	4.32	1.47	1.40	1.38	40.0	1.10	1.10	1.21
667.0	2.30	2.96	3.71	1.45	1.38	1.36	60.0	1.11	1.09	1.20
705.0	1.87	3.26	4.32	1.47	1.41	1.38	70.0	1.11	1.09	1.20
776.5	2.30	3.32	4.32	1.48	1.43	1.40	80.0	1.11	1.09	1.20
855.0	2.61	3.38	4.12	1.45	1.38	1.35	83.7	1.11	1.09	1.20
886.0	2.06	3.57	4.53	1.46	1.39	1.35	90.0	1.11	1.09	1.20
900.0	2.32	3.57	4.64	1.46	1.39	1.35	100.0	1.11	1.09	1.19
995.5	2.72	3.95	4.89	1.52	1.39	1.32	110.0	1.11	1.09	1.19
1105.0	3.44	3.86	4.53	1.58	1.40	1.31	194.1	1.11	1.07	1.16
1214.5	2.76	3.95	4.64	1.56	1.44	1.34	450.1	1.17	1.11	1.14
1255.0	3.50	5.66	7.00	1.55	1.43	1.34	495.0	1.23	1.11	1.09
1324.0	2.72	5.17	6.73	1.51	1.40	1.35	540.0	1.28	1.11	1.05