

Frequency Mixer

ADE-ED6820

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
5.0	35.0	7.84	7.44	7.14	35.0	58.5	58.4	58.1	50.8	56.9	65.7
10.0	40.0	7.52	7.12	6.92	40.0	57.8	57.4	56.9	50.4	56.3	66.2
84.3	114.3	7.47	7.07	6.87	114.3	48.4	48.1	48.0	41.3	47.9	59.6
168.5	198.5	7.39	6.99	6.79	198.5	43.6	43.5	43.3	37.5	43.6	49.4
252.7	282.7	7.09	6.79	6.59	282.7	40.3	40.5	40.2	35.1	41.0	44.3
336.9	366.9	7.04	6.64	6.54	366.9	38.0	38.1	38.1	33.0	39.2	41.0
421.1	451.1	6.70	6.50	6.30	451.1	36.6	36.7	37.2	32.8	39.0	37.4
505.3	535.3	6.84	6.64	6.44	535.3	35.9	36.2	36.5	32.6	36.7	33.5
589.5	619.5	7.05	6.65	6.55	619.5	35.3	35.6	36.1	33.5	35.2	31.7
673.7	703.7	7.07	6.67	6.47	703.7	35.2	35.8	36.6	33.6	34.1	29.6
757.9	787.9	7.10	6.70	6.50	787.9	34.5	35.1	36.2	37.1	33.2	28.4
842.2	872.2	7.02	6.62	6.42	872.2	33.9	34.8	35.7	36.9	30.4	27.0
926.4	956.4	6.99	6.49	6.19	956.4	34.2	35.2	36.5	28.9	25.1	23.3
1000.0	1030.0	7.02	6.52	6.12	1030.0	34.6	36.2	37.8	27.2	22.8	20.3
1010.6	1040.6	7.02	6.52	6.22	1040.6	34.5	36.1	37.3	26.5	22.3	20.2
1070.0	1100.0	7.19	6.69	6.29	1100.0	33.6	35.3	36.6	25.6	22.2	19.5
1094.8	1124.8	7.25	6.75	6.45	1124.8	33.9	35.6	37.2	24.6	21.7	19.2
1100.0	1130.0	7.28	6.78	6.38	1130.0	34.0	35.8	37.2	24.3	21.8	19.5
1179.0	1209.0	7.55	6.95	6.65	1209.0	34.4	36.1	37.8	21.2	19.8	18.7
1200.0	1230.0	7.74	7.14	6.74	1230.0	35.7	38.1	40.5	20.6	19.6	18.3

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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
35.0	1.57	1.63	1.68	1.88	2.68	3.79	10.0	1.80	1.46	1.25
40.0	1.38	1.45	1.52	1.89	2.65	3.64	50.0	1.76	1.44	1.25
114.3	1.35	1.46	1.54	1.89	2.58	3.64	57.5	1.77	1.46	1.25
198.5	1.35	1.43	1.49	1.85	2.58	3.57	114.8	1.75	1.46	1.27
282.7	1.35	1.43	1.49	1.85	2.55	3.50	150.0	1.73	1.45	1.28
366.9	1.33	1.41	1.46	1.87	2.52	3.44	172.2	1.74	1.46	1.29
451.1	1.33	1.41	1.46	1.96	2.68	3.50	200.0	1.73	1.46	1.31
535.3	1.29	1.36	1.42	2.06	2.76	3.64	229.6	1.74	1.48	1.32
619.5	1.25	1.31	1.35	2.20	2.76	3.57	286.9	1.77	1.53	1.38
703.7	1.24	1.30	1.37	2.32	3.01	3.79	344.3	1.82	1.57	1.42
787.9	1.22	1.27	1.32	2.46	3.26	4.12	401.6	1.87	1.61	1.46
872.2	1.23	1.26	1.31	2.65	3.32	4.32	459.0	1.89	1.64	1.51
956.4	1.30	1.33	1.39	2.92	3.64	4.53	516.4	1.94	1.70	1.55
1030.0	1.38	1.43	1.49	3.11	3.79	4.64	573.7	1.96	1.71	1.59
1040.6	1.37	1.41	1.46	3.26	4.03	4.89	631.1	1.94	1.73	1.59
1100.0	1.39	1.42	1.47	3.38	4.12	5.03	688.5	1.92	1.74	1.60
1124.8	1.40	1.43	1.47	3.57	4.22	5.17	745.8	1.89	1.71	1.59
1130.0	1.41	1.44	1.48	3.71	4.22	5.03	803.2	1.87	1.69	1.58
1209.0	1.59	1.57	1.59	3.79	4.32	5.03	860.5	1.82	1.64	1.56
1230.0	1.66	1.63	1.64	3.79	4.64	5.33	917.9	1.81	1.63	1.55