

Frequency Mixer

ADE-ED6514/2

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	6.14	5.84	5.74	35.0	58.5	58.8	58.8	46.0	49.9	53.6
10.0	40.0	6.01	5.71	5.61	40.0	57.3	57.8	57.8	45.0	48.8	53.0
40.0	70.0	5.83	5.53	5.53	70.0	52.2	52.4	52.8	40.5	44.4	49.0
73.8	103.8	5.82	5.62	5.52	103.8	48.8	49.3	49.3	37.6	41.7	45.7
147.5	177.5	5.85	5.55	5.45	177.5	44.4	44.7	44.8	33.9	37.8	41.5
221.1	251.1	5.78	5.48	5.38	251.1	41.5	41.5	41.9	31.4	35.3	38.8
294.8	324.8	5.76	5.56	5.46	324.8	39.5	39.5	39.9	29.9	33.7	37.0
368.5	398.5	5.83	5.63	5.53	398.5	38.2	39.0	39.3	28.9	32.7	36.0
442.2	472.2	5.79	5.59	5.49	472.2	37.1	37.8	38.2	29.1	33.1	34.5
515.9	545.9	6.11	5.81	5.71	545.9	36.4	37.4	37.9	27.7	31.0	32.3
589.5	619.5	6.05	5.75	5.65	619.5	35.5	36.3	36.6	28.8	30.5	30.4
663.2	693.2	6.06	5.76	5.56	693.2	35.8	36.9	37.8	33.4	32.4	29.7
720.0	750.0	6.35	5.85	5.65	750.0	35.8	37.0	37.7	33.3	29.0	26.3
736.9	766.9	6.39	5.99	5.69	766.9	35.7	36.9	37.7	32.5	28.0	25.1
810.6	840.6	6.65	6.15	5.75	840.6	35.4	37.0	37.9	31.6	26.1	22.3
884.2	914.2	6.91	6.41	6.11	914.2	35.3	36.8	37.7	29.3	24.4	21.1
957.9	987.9	7.15	6.65	6.35	987.9	35.1	36.4	36.9	25.1	22.6	19.8
1031.6	1061.6	7.43	6.73	6.23	1061.6	35.3	36.6	37.2	20.8	19.4	17.2
1105.3	1135.3	7.53	6.63	6.23	1135.3	33.7	34.5	35.4	16.9	15.7	14.1
1179.0	1209.0	7.63	6.93	6.73	1209.0	31.6	32.3	33.2	13.7	12.6	11.5

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
35.0	1.29	1.30	1.32	1.82	2.80	3.86	1.0	1.48	1.21	1.07
40.0	1.15	1.15	1.18	1.84	2.72	3.79	5.0	1.46	1.19	1.06
70.0	1.01	1.07	1.13	1.85	2.72	3.86	10.0	1.46	1.19	1.05
103.8	1.02	1.10	1.16	1.82	2.68	3.71	35.3	1.46	1.19	1.06
177.5	1.02	1.09	1.14	1.82	2.68	3.86	40.0	1.46	1.20	1.07
251.1	1.09	1.14	1.19	1.88	2.80	3.95	70.6	1.46	1.20	1.08
324.8	1.09	1.14	1.18	1.87	2.68	3.79	105.8	1.46	1.22	1.11
398.5	1.12	1.15	1.19	1.91	2.61	3.71	110.0	1.47	1.23	1.11
472.2	1.14	1.18	1.23	1.97	2.65	3.44	141.0	1.48	1.24	1.15
545.9	1.14	1.13	1.15	2.01	2.76	3.57	176.3	1.48	1.26	1.16
619.5	1.16	1.17	1.19	2.08	2.88	3.71	211.5	1.52	1.30	1.20
693.2	1.13	1.13	1.15	2.23	3.06	3.95	246.7	1.54	1.32	1.23
750.0	1.21	1.16	1.16	2.27	3.01	3.79	282.0	1.58	1.37	1.27
766.9	1.23	1.17	1.16	2.43	3.21	4.03	317.2	1.64	1.41	1.32
840.6	1.35	1.27	1.23	2.55	3.26	4.12	352.4	1.68	1.46	1.36
914.2	1.54	1.45	1.40	2.68	3.44	4.22	387.7	1.74	1.51	1.40
987.9	1.70	1.60	1.56	2.92	3.71	4.53	422.9	1.78	1.55	1.46
1061.6	1.96	1.85	1.82	3.06	3.79	4.64	458.1	1.81	1.58	1.48
1135.3	2.25	2.16	2.14	3.06	3.71	4.32	493.4	1.85	1.63	1.54
1209.0	2.61	2.58	2.55	3.06	3.64	4.22	528.6	1.85	1.62	1.54