

Frequency Mixer

ADE-ED7524/1

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
0.3	30.3	6.35	5.85	5.55	30.3	65.2	69.4	75.7	63.6	55.5	52.1
0.5	30.5	5.99	5.49	5.19	30.5	65.1	69.2	75.6	63.3	55.5	52.1
0.8	30.8	5.73	5.23	4.93	30.8	65.2	69.2	75.3	63.5	55.4	52.1
1.0	31.0	5.55	5.15	4.95	31.0	65.0	69.3	75.5	63.1	55.4	52.1
5.0	35.0	5.23	4.83	4.63	35.0	64.4	68.8	75.7	62.5	54.5	51.0
10.0	40.0	5.18	4.78	4.58	40.0	62.9	68.4	76.4	61.5	53.6	50.1
20.0	50.0	5.24	4.84	4.64	50.0	61.5	67.3	75.8	59.6	51.9	48.7
47.5	77.5	5.17	4.77	4.57	77.5	59.0	64.7	77.8	54.3	48.9	46.1
94.8	124.8	5.02	4.72	4.62	124.8	55.8	65.7	68.8	45.6	44.6	42.9
100.0	130.0	5.08	4.78	4.58	130.0	55.5	63.9	70.8	44.5	43.8	42.5
142.2	172.2	5.12	4.82	4.72	172.2	55.3	67.6	57.4	38.3	39.7	40.0
189.6	219.6	5.20	4.90	4.70	219.6	50.0	58.6	65.0	33.1	34.2	35.6
236.9	266.9	5.28	5.08	4.98	266.9	47.6	53.0	52.8	32.0	33.7	34.2
284.3	314.3	5.21	5.01	4.91	314.3	44.2	47.7	50.3	28.4	31.9	35.1
331.6	361.6	5.69	5.19	5.09	361.6	43.4	45.3	47.1	24.7	28.1	30.8
379.0	409.0	6.21	5.91	5.61	409.0	43.9	42.6	40.4	24.8	25.1	26.1
426.4	456.4	6.69	6.39	6.19	456.4	41.9	42.1	40.4	24.6	25.5	26.2
470.0	500.0	7.58	6.98	6.18	500.0	38.1	39.8	39.1	24.4	25.4	26.2
473.7	503.7	7.63	6.93	6.13	503.7	37.8	39.6	38.9	24.4	25.3	26.1
500.0	530.0	7.99	6.79	5.89	530.0	35.9	37.2	37.0	24.0	24.9	25.6

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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
30.3	1.70	1.60	1.56	1.10	1.52	2.32	0.1	2.96	2.43	1.97
30.5	1.59	1.46	1.39	1.11	1.51	2.32	0.3	2.96	2.43	1.97
30.8	1.55	1.40	1.32	1.10	1.53	2.27	0.5	3.06	2.52	2.03
31.0	1.55	1.39	1.30	1.08	1.53	2.35	1.0	3.16	2.58	2.08
35.0	1.59	1.39	1.26	1.10	1.55	2.35	10.0	3.16	2.55	2.06
40.0	1.59	1.37	1.25	1.11	1.57	2.35	25.9	2.96	2.43	2.01
50.0	1.57	1.37	1.24	1.11	1.56	2.35	30.0	2.96	2.43	1.99
77.5	1.50	1.30	1.19	1.10	1.53	2.30	51.7	2.92	2.40	1.97
124.8	1.44	1.26	1.15	1.10	1.53	2.30	77.5	2.88	2.40	1.97
130.0	1.44	1.26	1.14	1.11	1.54	2.35	100.0	2.80	2.35	1.94
172.2	1.43	1.25	1.13	1.11	1.56	2.40	103.2	2.84	2.40	1.96
219.6	1.41	1.23	1.13	1.18	1.63	2.37	129.0	2.80	2.35	1.96
266.9	1.26	1.15	1.07	1.19	1.68	2.49	154.8	2.72	2.30	1.92
314.3	1.14	1.02	1.10	1.31	1.74	2.55	180.6	2.68	2.27	1.89
361.6	1.23	1.10	1.10	1.46	1.87	2.49	206.4	2.61	2.23	1.88
409.0	1.43	1.29	1.20	1.43	2.06	2.80	232.2	2.58	2.23	1.88
456.4	1.59	1.48	1.41	1.44	1.91	2.49	257.9	2.52	2.18	1.87
500.0	1.88	1.73	1.59	1.47	2.01	2.72	283.7	2.46	2.16	1.85
503.7	1.89	1.74	1.59	1.48	2.03	2.76	309.5	2.49	2.14	1.85
530.0	2.01	1.78	1.61	1.48	1.94	2.55	335.3	2.43	2.14	1.84