

Frequency Mixer

ADE-ED6731/1

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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
10.0	40.0	6.94	6.54	6.34	40.0	64.9	65.2	65.5	62.9	63.2	62.5
65.4	95.4	6.84	6.44	6.24	95.4	57.1	57.3	57.8	65.1	60.6	58.1
70.0	100.0	6.74	6.44	6.24	100.0	57.1	57.3	57.3	64.8	60.2	57.7
130.6	160.6	6.80	6.40	6.30	160.6	52.9	53.5	53.6	62.6	56.2	53.8
195.8	225.8	6.84	6.44	6.34	225.8	50.1	51.0	51.1	55.4	52.0	50.6
261.0	291.0	6.70	6.50	6.30	291.0	48.4	49.0	49.1	50.6	48.9	48.1
326.2	356.2	6.84	6.44	6.34	356.2	47.0	47.8	47.9	47.6	46.4	45.9
391.5	421.5	6.77	6.47	6.37	421.5	45.2	45.6	46.2	45.9	44.8	43.9
456.7	486.7	6.74	6.44	6.24	486.7	44.1	44.4	45.2	43.6	42.7	42.1
500.0	530.0	6.80	6.40	6.30	530.0	43.7	43.9	44.6	42.7	41.8	41.2
520.0	550.0	6.80	6.40	6.30	550.0	43.4	43.9	44.7	42.7	41.8	41.1
587.1	617.1	6.94	6.54	6.34	617.1	42.9	43.2	44.0	41.0	40.6	40.4
652.3	682.3	6.89	6.59	6.39	682.3	41.0	41.6	42.6	39.0	37.6	37.3
717.5	747.5	6.93	6.73	6.43	747.5	40.0	40.6	41.2	38.4	36.7	35.7
782.7	812.7	7.03	6.73	6.43	812.7	39.1	39.8	40.5	38.9	36.6	35.0
847.9	877.9	6.95	6.65	6.35	877.9	38.3	38.9	39.5	38.3	35.9	34.4
913.1	943.1	7.23	6.73	6.53	943.1	37.2	37.9	38.5	36.2	34.6	33.2
970.0	1000.0	7.54	6.94	6.54	1000.0	37.0	37.4	37.9	34.6	33.0	31.9
978.3	1008.3	7.49	6.99	6.59	1008.3	37.0	37.3	38.1	34.0	32.5	31.7
1000.0	1030.0	7.68	7.08	6.58	1030.0	37.1	37.6	38.0	33.5	31.7	30.8

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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
40.0	1.28	1.34	1.38	1.12	1.66	2.18	1.0	2.10	1.77	1.55
95.4	1.17	1.28	1.36	1.17	1.70	2.16	5.0	2.12	1.76	1.54
100.0	1.18	1.28	1.35	1.20	1.73	2.32	10.0	2.10	1.76	1.53
160.6	1.21	1.32	1.37	1.28	1.81	2.46	28.7	2.04	1.71	1.50
225.8	1.19	1.28	1.32	1.35	1.89	2.65	50.0	2.03	1.70	1.49
291.0	1.23	1.32	1.36	1.42	1.96	2.65	57.2	2.04	1.73	1.50
356.2	1.22	1.29	1.34	1.48	2.08	2.76	85.8	2.06	1.74	1.51
421.5	1.23	1.30	1.34	1.60	2.27	3.11	114.4	2.03	1.71	1.51
486.7	1.27	1.35	1.39	1.68	2.37	3.06	142.9	1.97	1.68	1.48
530.0	1.30	1.37	1.41	1.76	2.52	3.26	171.5	1.94	1.67	1.48
550.0	1.31	1.38	1.43	1.76	2.43	3.11	200.1	1.89	1.64	1.48
617.1	1.32	1.38	1.43	1.97	2.76	3.50	228.6	1.91	1.64	1.48
682.3	1.39	1.45	1.50	2.10	2.96	3.71	257.2	1.87	1.62	1.46
747.5	1.46	1.51	1.54	2.16	2.92	3.57	285.8	1.88	1.63	1.48
812.7	1.52	1.57	1.62	2.35	3.11	3.86	314.3	1.87	1.62	1.48
877.9	1.66	1.73	1.77	2.76	3.64	4.32	342.9	1.85	1.61	1.46
943.1	1.67	1.71	1.77	2.88	3.86	4.64	371.5	1.82	1.60	1.46
1000.0	1.80	1.81	1.85	2.84	3.95	4.22	400.0	1.81	1.60	1.48
1008.3	1.85	1.88	1.89	3.01	4.03	4.42	428.6	1.82	1.61	1.48
1030.0	1.96	1.96	1.99	3.11	4.32	4.64	457.2	1.82	1.61	1.49