

Frequency Mixer

ADE-ED7191/1

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
5.0	625.0	5.99	5.69	5.69	625.0	40.8	42.8	44.1	41.5	37.8	36.0
10.0	630.0	5.73	5.63	5.53	630.0	40.8	42.9	44.1	41.5	37.7	35.9
20.0	640.0	5.82	5.62	5.42	640.0	40.7	42.9	44.3	41.6	37.4	35.5
30.0	650.0	5.76	5.56	5.46	650.0	40.8	42.9	44.6	41.4	37.2	35.1
50.0	670.0	5.87	5.47	5.37	670.0	40.7	43.5	45.2	41.1	36.4	34.0
75.1	695.1	5.76	5.46	5.46	695.1	40.4	43.4	44.6	40.1	35.1	32.5
100.0	720.0	5.76	5.56	5.36	720.0	39.2	41.5	42.6	39.6	34.3	31.7
150.1	770.1	5.77	5.47	5.37	770.1	36.2	38.1	38.9	39.5	34.4	31.0
225.1	845.1	5.71	5.51	5.31	845.1	34.3	35.7	36.4	36.8	36.4	32.9
250.0	870.0	5.66	5.46	5.36	870.0	33.8	35.1	35.9	35.1	35.1	33.1
300.1	920.1	5.70	5.40	5.30	920.1	33.3	34.5	35.0	32.7	33.0	32.5
375.1	995.1	5.65	5.45	5.35	995.1	33.2	34.5	35.2	29.5	29.8	29.6
450.0	1070.0	5.82	5.52	5.32	1070.0	34.9	35.9	35.4	27.0	27.8	27.1
500.0	1120.0	5.91	5.41	5.21	1120.0	35.1	34.3	31.6	25.4	26.6	24.8
525.1	1145.1	5.94	5.34	5.14	1145.1	34.6	32.7	30.1	24.6	26.0	24.1
600.1	1220.1	5.87	5.17	4.87	1220.1	30.6	27.9	26.4	22.8	23.4	21.7
675.1	1295.1	5.89	5.29	5.09	1295.1	26.8	25.3	24.2	21.2	21.8	20.6
750.1	1370.1	6.40	5.90	5.70	1370.1	23.9	23.9	23.0	19.3	21.1	20.5
825.0	1445.0	7.17	6.67	6.57	1445.0	22.2	23.1	22.6	18.5	20.7	20.8
900.0	1520.0	8.07	7.27	7.17	1520.0	21.0	22.2	22.5	18.1	20.4	21.5

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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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
625.0	2.18	2.96	3.86	1.27	1.24	1.22	100.0	1.88	1.39	1.62
630.0	2.18	3.01	3.86	1.21	1.16	1.13	150.1	1.87	1.39	1.61
640.0	2.16	2.84	3.71	1.18	1.12	1.07	200.1	1.85	1.42	1.62
650.0	2.16	2.80	3.71	1.17	1.10	1.05	250.1	1.84	1.44	1.62
670.0	2.25	3.01	3.79	1.15	1.07	1.01	300.1	1.88	1.48	1.64
695.1	2.40	3.16	3.95	1.13	1.05	1.03	350.1	1.91	1.53	1.69
720.0	2.43	3.06	3.79	1.13	1.05	1.07	400.1	1.96	1.59	1.76
770.1	2.55	3.26	4.03	1.13	1.08	1.14	450.1	2.03	1.62	1.78
845.1	2.49	3.21	3.86	1.13	1.03	1.12	500.0	2.04	1.66	1.81
870.0	2.72	3.50	4.22	1.12	1.03	1.10	550.0	2.04	1.70	1.84
920.1	2.65	3.21	3.79	1.11	1.04	1.06	600.0	2.04	1.73	1.85
995.1	2.88	3.44	4.12	1.08	1.01	1.07	620.0	2.08	1.73	1.88
1070.0	3.11	3.79	4.53	1.12	1.03	1.05	650.0	2.08	1.74	1.87
1120.0	3.06	3.64	4.32	1.17	1.07	1.04	700.0	2.04	1.73	1.85
1145.1	3.21	3.79	4.42	1.20	1.10	1.08	750.0	2.01	1.70	1.81
1220.1	3.21	3.64	4.12	1.38	1.31	1.29	800.0	1.99	1.68	1.80
1295.1	3.21	3.50	3.79	1.68	1.59	1.57	850.0	1.99	1.67	1.81
1370.1	3.44	3.50	3.64	2.06	1.96	1.91	900.0	1.99	1.67	1.80
1445.0	3.71	3.71	3.71	2.52	2.40	2.35	950.0	2.06	1.68	1.85
1520.0	3.71	3.71	3.71	3.06	2.84	2.84	1000.0	2.14	1.70	1.91