

Frequency Mixer

ADE-ED7112/1

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
100.0	78.6	7.96	7.36	7.16	78.6	58.2	60.3	61.3	50.7	47.0	45.5
105.9	84.5	7.96	7.36	7.16	84.5	57.8	56.3	60.8	47.1	43.4	41.8
140.0	118.6	7.89	7.19	7.09	118.6	54.5	54.9	57.0	46.3	42.4	41.1
150.0	128.6	8.03	7.23	7.03	128.6	54.5	52.9	57.0	44.4	40.6	39.5
180.0	158.6	8.12	7.32	7.12	158.6	53.6	51.8	56.2	43.2	39.5	38.5
200.0	178.6	8.13	7.23	7.13	178.6	51.3	51.2	54.1	41.6	38.7	37.8
216.0	194.6	7.91	7.21	7.01	194.6	50.3	50.8	53.1	40.8	38.4	37.4
230.0	208.6	7.84	7.24	7.04	208.6	49.5	49.3	52.5	40.0	37.7	36.9
254.9	233.5	7.86	7.16	7.06	233.5	48.8	47.1	52.0	37.5	36.0	34.9
329.4	308.0	7.59	7.09	6.99	308.0	47.4	44.1	50.6	36.8	35.2	34.0
403.9	382.5	7.68	7.08	6.98	382.5	44.8	42.2	48.2	35.9	34.0	32.6
478.4	457.0	7.41	6.91	6.81	457.0	42.3	41.9	45.3	35.8	33.8	32.4
500.0	478.6	7.34	6.94	6.74	478.6	40.2	41.1	43.3	35.8	33.1	31.6
552.9	531.5	7.30	6.90	6.80	531.5	40.0	41.1	43.1	35.8	33.1	31.6
627.4	606.0	7.26	6.86	6.66	606.0	39.2	39.6	42.3	35.1	32.1	30.6
701.9	680.5	7.22	6.72	6.62	680.5	39.2	39.3	42.3	33.8	30.4	28.9
776.4	755.0	7.19	6.79	6.69	755.0	38.4	37.7	40.4	31.6	28.8	27.3
850.9	829.5	7.06	6.66	6.46	829.5	37.6	36.7	40.0	29.5	26.8	25.3
925.4	904.0	7.14	6.54	6.44	904.0	36.3	35.5	38.5	27.7	24.6	23.4
1000.0	978.6	7.16	6.56	6.36	978.6	35.4	34.1	37.3	26.1	23.0	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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
78.6	1.10	1.85	2.61	1.36	1.24	1.19	0.1	1.53	1.16	1.04
84.5	1.12	1.84	2.65	1.36	1.24	1.19	0.5	1.59	1.20	1.07
118.6	1.12	1.84	2.55	1.38	1.25	1.19	1.0	1.63	1.23	1.09
128.6	1.13	1.85	2.55	1.35	1.24	1.19	5.0	1.60	1.21	1.08
158.6	1.13	1.84	2.61	1.38	1.25	1.20	10.0	1.61	1.21	1.08
178.6	1.14	1.87	2.65	1.38	1.25	1.20	21.4	1.59	1.20	1.07
194.6	1.18	1.89	2.68	1.36	1.25	1.21	50.0	1.59	1.21	1.08
208.6	1.19	1.89	2.68	1.34	1.23	1.19	100.0	1.59	1.22	1.10
233.5	1.18	1.92	2.72	1.32	1.21	1.18	150.1	1.57	1.23	1.13
308.0	1.19	1.88	2.68	1.27	1.19	1.16	200.1	1.57	1.25	1.17
382.5	1.18	1.89	2.61	1.27	1.19	1.16	250.1	1.57	1.27	1.20
457.0	1.21	1.97	2.65	1.21	1.15	1.13	300.1	1.58	1.30	1.25
478.6	1.22	1.94	2.61	1.21	1.15	1.14	350.1	1.61	1.35	1.30
531.5	1.24	2.08	2.80	1.20	1.15	1.15	400.1	1.66	1.41	1.37
606.0	1.33	2.18	2.88	1.16	1.13	1.13	450.1	1.69	1.46	1.43
680.5	1.38	2.20	2.96	1.10	1.11	1.14	500.0	1.74	1.51	1.50
755.0	1.44	2.20	2.84	1.06	1.10	1.14	550.0	1.74	1.57	1.57
829.5	1.50	2.23	2.88	1.04	1.13	1.19	600.0	1.74	1.59	1.61
904.0	1.62	2.46	3.21	1.09	1.20	1.27	650.0	1.70	1.61	1.63
978.6	1.81	2.80	3.64	1.16	1.25	1.31	700.0	1.69	1.61	1.65