

Frequency Mixer

ADE-ED7795/1

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	130.0	8.39	7.89	7.69	130.0	60.2	63.4	71.7	48.2	47.5	46.7
128.0	158.0	7.82	7.42	7.22	158.0	57.6	64.2	66.8	51.6	50.2	47.9
200.0	230.0	7.16	6.86	6.66	230.0	52.2	55.3	58.5	54.4	49.6	46.5
216.0	246.0	6.96	6.66	6.36	246.0	51.5	54.4	58.0	54.6	49.4	46.0
304.0	334.0	6.95	6.65	6.35	334.0	48.6	51.8	55.6	47.8	46.4	44.4
392.0	422.0	6.62	6.32	6.22	422.0	47.7	51.7	56.5	43.3	43.5	42.9
480.0	510.0	6.54	6.24	6.04	510.0	44.2	47.8	52.2	38.3	39.5	40.1
500.0	530.0	6.43	6.23	6.03	530.0	44.0	47.1	51.5	37.6	38.8	39.7
568.0	598.0	6.22	6.02	5.82	598.0	45.5	50.1	56.4	36.3	37.6	38.4
656.0	686.0	6.50	6.10	5.90	686.0	46.3	51.5	58.9	36.6	38.1	39.1
744.0	774.0	6.52	6.12	5.92	774.0	44.3	47.6	50.9	34.2	36.0	37.4
800.0	830.0	6.48	6.08	5.88	830.0	43.6	47.4	51.7	32.6	34.6	36.4
832.0	862.0	6.45	6.05	5.75	862.0	42.2	45.2	48.0	31.5	33.6	35.5
900.0	930.0	6.16	5.86	5.56	930.0	38.7	41.3	43.6	29.4	31.4	33.4
920.0	950.0	6.17	5.77	5.57	950.0	37.7	40.2	42.3	28.9	30.8	32.6
970.0	1000.0	6.15	5.65	5.35	1000.0	35.5	37.7	39.2	27.9	29.8	31.8
1000.0	1030.0	6.12	5.62	5.42	1030.0	35.5	37.7	39.5	27.5	29.3	31.3
1008.0	1038.0	6.13	5.63	5.33	1038.0	35.3	37.5	39.4	27.4	29.1	31.2
1030.0	1060.0	6.19	5.69	5.39	1060.0	34.5	36.7	38.6	27.2	28.9	30.7
1096.0	1126.0	6.57	5.87	5.47	1126.0	32.8	34.8	36.4	26.9	28.6	30.7
1100.0	1130.0	6.40	5.80	5.50	1130.0	32.9	34.8	36.4	26.9	28.5	30.5
1184.0	1214.0	6.79	6.19	5.79	1214.0	31.3	33.4	34.7	26.6	28.6	30.4
1200.0	1230.0	6.85	6.25	5.85	1230.0	30.8	32.9	34.5	26.6	28.5	30.4
1272.0	1302.0	7.08	6.68	6.28	1302.0	29.8	31.6	32.9	26.3	28.3	29.9
1360.0	1390.0	7.49	7.09	6.69	1390.0	29.3	31.1	32.3	25.6	26.9	28.0
1448.0	1478.0	7.90	7.60	7.40	1478.0	28.6	29.8	30.5	25.0	26.2	27.3
1500.0	1530.0	8.40	8.20	8.00	1530.0	28.1	28.9	29.6	25.2	26.4	27.2
1536.0	1566.0	8.78	8.58	8.48	1566.0	27.8	28.8	29.4	25.2	26.2	26.8

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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
130.0	3.86	3.64	3.44	2.84	2.84	3.32	0.1	1.71	1.48	1.34
158.0	3.32	3.11	3.01	2.46	2.46	3.16	0.2	1.69	1.45	1.32
230.0	2.68	2.55	2.52	2.04	2.35	3.06	0.5	1.75	1.50	1.37
246.0	2.76	2.65	2.55	1.97	2.25	3.11	1.0	1.78	1.53	1.39
334.0	2.35	2.27	2.20	1.78	2.18	3.06	5.0	1.71	1.47	1.34
422.0	2.25	2.18	2.14	1.75	2.30	3.21	10.0	1.71	1.48	1.34
510.0	2.10	2.04	1.99	1.77	2.52	3.64	30.0	1.68	1.46	1.33
530.0	2.10	2.04	1.99	1.80	2.52	3.64	50.0	1.69	1.47	1.34
598.0	2.01	1.96	1.91	1.84	2.72	3.86	100.0	1.73	1.50	1.37
686.0	1.84	1.81	1.78	1.84	2.68	3.71	102.1	1.73	1.50	1.37
774.0	1.80	1.77	1.77	1.84	2.61	3.50	153.1	1.75	1.53	1.40
830.0	1.75	1.73	1.73	1.80	2.49	3.26	204.1	1.78	1.56	1.43
862.0	1.70	1.68	1.67	1.89	2.65	3.57	250.0	1.78	1.58	1.45
930.0	1.59	1.55	1.54	1.96	2.76	3.79	255.1	1.80	1.59	1.46
950.0	1.52	1.48	1.47	2.06	2.96	4.22	306.1	1.84	1.61	1.50
1000.0	1.35	1.31	1.30	2.20	3.21	4.42	357.1	1.87	1.66	1.55
1030.0	1.26	1.21	1.21	2.32	3.32	4.64	408.1	1.87	1.69	1.59
1038.0	1.23	1.19	1.19	2.35	3.38	4.89	459.1	1.85	1.70	1.63
1060.0	1.18	1.13	1.15	2.46	3.50	5.17	500.0	1.85	1.74	1.69
1126.0	1.12	1.06	1.12	2.55	3.50	5.03	510.1	1.84	1.74	1.69
1130.0	1.12	1.07	1.13	2.55	3.50	5.03	561.0	1.84	1.76	1.74
1214.0	1.40	1.38	1.38	2.49	3.44	4.53	612.0	1.82	1.77	1.78
1230.0	1.48	1.46	1.46	2.58	3.32	4.64	663.0	1.81	1.80	1.82
1302.0	1.82	1.81	1.81	2.43	3.26	4.03	714.0	1.80	1.81	1.87
1390.0	2.27	2.27	2.27	2.40	3.16	4.12	765.0	1.81	1.85	1.94
1478.0	2.61	2.61	2.58	2.49	3.16	4.22	800.0	1.85	1.91	2.01
1530.0	2.72	2.72	2.72	2.55	3.26	4.32	816.0	1.82	1.88	1.99
1566.0	2.72	2.72	2.72	2.58	3.32	4.32	867.0	1.89	1.97	2.10