

Frequency Mixer

ADE-ED6879/1

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
550.0	580.0	7.32	6.12	5.92	580.0	39.1	42.2	45.9	54.0	54.9	52.9
575.0	605.0	7.23	6.13	5.83	605.0	38.7	41.2	44.7	54.5	55.3	53.5
600.0	630.0	7.27	6.17	5.77	630.0	38.6	40.8	44.0	56.0	54.6	53.2
700.0	730.0	6.97	6.37	6.07	730.0	37.6	39.9	42.2	56.9	52.3	50.1
800.0	830.0	7.12	6.32	6.02	830.0	35.2	38.0	40.5	49.4	47.0	45.7
850.0	880.0	7.35	6.45	6.15	880.0	33.8	36.3	38.8	47.5	45.2	43.7
900.0	930.0	7.26	6.26	5.86	930.0	32.4	34.7	37.2	45.3	43.3	42.0
950.0	980.0	7.03	6.23	5.83	980.0	31.7	33.5	35.8	44.4	42.7	41.2
1000.0	1030.0	7.03	6.33	5.93	1030.0	31.6	33.8	36.0	44.0	42.4	40.9
1050.0	1080.0	7.27	6.67	6.27	1080.0	30.8	33.0	35.2	43.5	43.0	41.7
1100.0	1130.0	7.58	6.78	6.38	1130.0	29.5	32.1	34.4	41.5	43.0	42.6
1150.0	1180.0	7.76	6.96	6.36	1180.0	28.6	31.0	33.3	39.0	41.1	41.9
1200.0	1230.0	8.14	7.24	6.54	1230.0	27.3	30.0	32.1	36.2	37.6	39.3
1250.0	1280.0	8.09	6.99	6.39	1280.0	26.0	28.5	30.8	34.3	34.0	34.6
1300.0	1330.0	7.99	7.09	6.29	1330.0	25.2	27.8	30.1	33.6	32.8	32.7
1350.0	1380.0	7.97	7.07	6.37	1380.0	24.5	26.8	29.1	32.4	31.8	31.3
1400.0	1430.0	8.04	7.24	6.34	1430.0	23.7	25.9	28.3	31.6	30.8	30.5
1450.0	1480.0	8.00	7.30	6.40	1480.0	23.5	25.7	28.1	30.8	30.2	29.6
1470.0	1500.0	8.12	7.32	6.42	1500.0	23.2	25.8	28.4	30.9	30.2	29.6
1500.0	1530.0	8.12	7.42	6.52	1530.0	23.4	25.9	28.5	30.5	29.9	29.0

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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
580.0	3.71	3.01	2.84	3.50	2.61	2.76	1.0	6.05	4.89	3.79
605.0	3.64	2.96	2.80	3.44	2.65	2.88	5.0	5.85	4.77	3.71
630.0	3.50	2.88	2.76	3.26	2.49	2.72	10.0	6.05	4.89	3.86
730.0	3.01	2.80	2.65	2.76	2.52	2.92	40.0	5.85	4.89	3.79
830.0	2.92	2.65	2.58	2.58	2.65	3.21	72.6	5.03	4.32	3.44
880.0	2.96	2.72	2.65	2.61	2.84	3.50	145.1	4.53	3.95	3.26
930.0	2.76	2.49	2.40	2.52	2.84	3.57	217.6	4.32	3.79	3.21
980.0	2.55	2.30	2.18	2.61	3.01	3.86	290.1	4.42	3.86	3.21
1030.0	2.35	2.23	2.14	2.58	3.11	4.03	362.6	4.64	3.86	3.21
1080.0	2.35	2.25	2.18	2.68	3.26	4.22	435.1	4.64	3.95	3.26
1130.0	2.30	2.18	2.12	2.68	3.32	4.32	507.6	4.32	3.79	3.16
1180.0	2.23	2.14	2.08	2.88	3.71	4.89	580.1	4.12	3.71	3.11
1230.0	2.23	2.08	1.97	2.92	3.86	4.89	652.6	3.86	3.57	3.01
1280.0	2.03	1.87	1.75	3.21	4.22	5.66	725.1	3.50	3.16	2.76
1330.0	1.77	1.63	1.52	3.38	4.42	5.85	797.5	3.06	2.84	2.49
1380.0	1.59	1.46	1.38	3.50	4.77	6.05	870.0	2.88	2.68	2.43
1430.0	1.42	1.30	1.20	4.12	5.33	7.28	942.5	2.84	2.61	2.37
1480.0	1.31	1.19	1.06	4.03	5.03	6.49	1015.0	2.84	2.58	2.32
1500.0	1.34	1.23	1.15	4.12	5.33	7.00	1087.5	2.65	2.40	2.16
1530.0	1.44	1.38	1.32	4.89	6.49	9.18	1160.0	2.40	2.18	1.94