

Frequency Mixer

ADE-ED8016/1

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
1500.0	1530.0	5.25	4.95	4.85	1530.0	30.0	29.4	28.4	25.5	24.7	23.9
1580.0	1610.0	5.30	5.00	4.90	1610.0	29.5	28.8	27.8	23.4	23.2	22.7
1600.0	1630.0	5.29	5.09	4.89	1630.0	28.7	28.8	27.4	22.9	22.8	22.3
1700.0	1730.0	5.40	5.10	4.90	1730.0	28.7	28.3	27.3	21.7	21.9	21.6
1715.0	1745.0	5.43	5.13	5.03	1745.0	28.8	28.4	27.7	21.7	21.9	21.8
1800.0	1830.0	5.64	5.44	5.34	1830.0	30.5	30.3	29.9	22.5	23.1	23.1
1850.0	1880.0	5.82	5.62	5.62	1880.0	33.6	33.4	32.4	23.4	24.0	23.8
1985.0	2015.0	5.76	5.36	5.26	2015.0	37.8	36.7	35.2	26.6	26.9	26.7
2000.0	2030.0	5.71	5.41	5.31	2030.0	38.4	36.8	35.1	26.9	27.2	26.9
2100.0	2130.0	5.69	5.29	5.09	2130.0	38.7	35.8	33.6	28.4	28.8	28.4
2120.0	2150.0	5.68	5.28	5.18	2150.0	38.0	35.2	32.6	28.9	29.1	28.4
2200.0	2230.0	6.30	5.70	5.40	2230.0	37.0	35.1	31.5	29.9	29.8	29.7
2255.0	2285.0	6.73	5.93	5.53	2285.0	39.6	35.8	32.8	30.6	30.8	30.4
2300.0	2330.0	6.72	5.82	5.32	2330.0	41.9	37.5	33.6	30.8	31.1	30.8
2390.0	2420.0	6.38	5.68	5.28	2420.0	38.1	37.3	34.1	31.3	31.3	31.2
2500.0	2530.0	6.09	5.59	5.19	2530.0	31.7	32.8	31.2	31.4	31.8	31.8
2525.0	2555.0	6.10	5.60	5.20	2555.0	30.5	31.6	30.3	31.5	31.8	31.8
2600.0	2630.0	6.20	5.80	5.50	2630.0	27.8	28.7	28.2	32.0	32.5	31.8
2660.0	2690.0	6.55	5.95	5.65	2690.0	25.9	27.0	27.1	32.6	33.1	32.8
2670.0	2700.0	6.46	5.96	5.66	2700.0	25.7	26.7	26.8	32.6	33.1	33.1
2700.0	2730.0	6.47	6.07	5.77	2730.0	25.0	25.8	26.1	32.7	33.2	33.5
2730.0	2760.0	6.45	6.15	5.75	2760.0	24.1	25.2	25.4	32.7	33.5	33.6
2795.0	2825.0	6.58	6.18	5.98	2825.0	22.8	23.8	24.2	32.5	33.5	33.8
2930.0	2960.0	7.50	7.10	7.00	2960.0	21.6	22.7	23.1	33.1	33.8	34.2
3000.0	3030.0	8.15	7.85	7.65	3030.0	20.8	21.5	21.8	33.0	33.9	34.3

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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
1530.0	1.20	1.22	1.28	3.26	3.95	7.60	0.1	1.84	1.54	1.30
1610.0	1.43	1.46	1.51	3.44	4.32	7.60	0.5	1.89	1.58	1.35
1630.0	1.48	1.52	1.57	3.44	4.32	7.94	1.0	1.97	1.63	1.38
1730.0	1.69	1.74	1.77	3.86	4.53	7.60	5.0	1.97	1.60	1.36
1745.0	1.71	1.75	1.77	4.03	4.53	8.31	10.0	1.94	1.60	1.35
1830.0	1.82	1.89	1.94	4.32	4.53	8.31	20.0	1.89	1.59	1.34
1880.0	1.78	1.88	1.92	4.32	4.53	7.94	30.0	1.88	1.59	1.34
2015.0	1.89	1.78	1.76	4.64	4.53	6.73	50.0	1.89	1.59	1.35
2030.0	1.91	1.77	1.74	4.77	4.64	7.00	85.1	1.94	1.61	1.38
2130.0	1.74	1.56	1.46	4.64	4.64	7.00	100.0	1.89	1.61	1.37
2150.0	1.73	1.52	1.39	4.64	4.53	6.73	170.1	1.85	1.57	1.37
2230.0	1.94	1.73	1.56	4.89	4.64	7.28	255.1	1.69	1.43	1.24
2285.0	2.10	1.89	1.73	5.03	4.77	7.60	340.1	1.48	1.27	1.15
2330.0	2.04	1.87	1.69	5.03	4.64	7.28	425.1	1.34	1.19	1.19
2420.0	1.88	1.70	1.57	5.03	4.64	6.73	500.0	1.29	1.23	1.31
2530.0	1.68	1.58	1.49	5.03	4.77	7.28	510.1	1.30	1.24	1.31
2555.0	1.64	1.57	1.51	5.33	4.77	7.60	595.1	1.33	1.37	1.51
2630.0	1.64	1.62	1.60	4.89	4.42	6.73	680.1	1.41	1.50	1.65
2690.0	1.71	1.73	1.74	4.22	3.79	4.89	765.1	1.60	1.66	1.80
2700.0	1.73	1.77	1.77	4.22	3.79	4.53	850.1	1.87	1.91	1.99
2730.0	1.80	1.85	1.87	4.22	3.79	4.89	935.0	2.25	2.30	2.32
2760.0	1.87	1.92	1.96	3.86	3.50	4.42	1000.0	2.55	2.58	2.65
2825.0	2.12	2.20	2.25	3.79	3.32	4.32	1020.0	2.61	2.65	2.72
2960.0	2.76	2.92	2.96	3.50	3.11	3.86	1105.0	2.76	2.76	2.76
3030.0	3.26	3.38	3.50	3.71	3.16	3.16	1190.0	3.01	3.01	3.01