

Frequency Mixer

ASK-1-KK81+

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
1.0	31.0	5.61	5.34	5.16	1.0	39.10	41.73	44.04	39.04	40.78	42.48
5.0	35.0	5.28	5.14	4.90	5.0	41.35	43.83	46.14	45.93	48.03	49.94
10.0	40.0	5.24	5.10	4.87	10.0	42.10	44.31	46.27	47.06	49.23	50.33
20.0	50.0	5.33	5.10	4.89	20.0	41.21	43.27	44.87	46.03	47.31	47.18
50.0	80.0	5.21	5.07	4.86	50.0	40.33	41.89	42.46	43.68	43.53	41.68
100.0	70.0	5.09	4.98	4.82	100.0	39.93	41.22	41.75	41.82	41.32	40.36
124.9	94.9	5.18	5.07	4.90	124.9	39.54	40.40	40.49	39.25	38.91	38.11
166.2	136.2	5.29	5.14	4.98	166.2	39.26	40.04	40.44	36.95	37.11	37.23
207.6	177.6	5.31	5.19	4.98	207.6	39.26	39.72	39.36	35.80	36.06	35.67
228.2	198.2	5.20	5.11	4.90	228.2	38.88	39.43	37.92	34.36	34.77	34.32
269.5	239.5	5.24	5.17	4.97	269.5	38.87	39.11	39.52	32.97	33.40	34.08
310.8	280.8	5.50	5.34	5.16	310.8	38.11	38.68	38.01	31.41	32.44	32.86
352.1	322.1	5.48	5.31	5.09	352.1	35.92	36.90	36.78	29.97	31.98	31.89
372.8	342.8	5.49	5.36	5.21	372.8	33.94	34.94	33.83	29.59	31.09	31.65
414.1	384.1	5.53	5.33	5.15	414.1	33.25	33.57	33.66	30.29	31.83	33.34
455.4	425.4	5.79	5.57	5.35	455.4	32.21	32.53	32.17	29.66	31.14	32.51
496.7	466.7	6.07	5.67	5.35	496.7	31.01	30.97	30.86	28.78	29.46	29.39
538.0	508.0	6.18	5.75	5.39	538.0	30.80	30.78	30.29	28.51	28.57	27.79
558.7	528.7	6.15	5.72	5.45	558.7	30.06	29.47	29.81	28.45	27.11	26.81
600.0	570.0	6.27	5.82	5.52	600.0	29.46	28.98	28.82	27.11	25.59	24.20



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10	+7		
5.0	1.23	1.15	1.13	1.89	3.01	4.50	5.0	1.49	1.35	1.27	1.0	-228.0	4.07
20.0	1.19	1.12	1.06	1.91	2.92	4.12	20.0	1.49	1.36	1.27	5.0	-228.8	2.52
43.4	1.17	1.10	1.04	1.91	2.87	4.04	43.4	1.48	1.36	1.26	20.0	-227.1	2.57
50.0	1.16	1.09	1.04	1.91	2.86	4.01	50.0	1.48	1.36	1.26	39.6	-225.4	2.80
81.8	1.15	1.08	1.03	1.82	2.67	3.67	81.8	1.48	1.36	1.26	78.3	-227.0	2.99
101.0	1.14	1.08	1.03	1.83	2.75	3.72	101.0	1.50	1.36	1.27	100.0	-226.1	2.96
139.4	1.12	1.06	1.03	1.82	2.68	3.43	139.4	1.49	1.37	1.27	136.3	-227.7	2.86
177.8	1.10	1.04	1.03	1.88	2.68	3.41	177.8	1.51	1.38	1.28	174.9	-225.4	2.47
200.0	1.08	1.03	1.03	1.83	2.64	3.36	200.0	1.53	1.39	1.30	200.0	-228.1	2.24
235.3	1.06	1.01	1.04	1.86	2.61	3.40	235.3	1.55	1.42	1.32	232.9	-226.7	1.73
273.7	1.03	1.03	1.07	1.91	2.72	3.52	273.7	1.58	1.45	1.34	271.5	-218.9	1.15
312.1	1.04	1.06	1.10	1.98	2.70	3.47	312.1	1.61	1.47	1.38	310.2	-210.9	0.58
350.5	1.08	1.10	1.13	2.05	2.84	3.48	350.5	1.65	1.51	1.41	348.8	-207.5	0.21
388.9	1.13	1.15	1.18	2.12	3.08	3.67	388.9	1.69	1.55	1.44	387.5	-206.2	-0.11
427.3	1.18	1.20	1.23	2.17	3.20	3.67	427.3	1.71	1.59	1.49	426.1	-212.5	-1.04
465.7	1.24	1.26	1.27	2.25	3.16	3.72	465.7	1.75	1.63	1.54	464.8	-213.7	-1.82
500.0	1.29	1.31	1.32	2.30	3.29	3.80	500.0	1.78	1.67	1.58	500.0	-201.7	-1.83
523.2	1.33	1.34	1.35	2.40	3.28	3.94	523.2	1.80	1.69	1.61	522.7	-197.7	2.55
561.6	1.39	1.40	1.40	2.49	3.48	4.10	561.6	1.84	1.73	1.65	561.4	-189.5	-2.83
600.0	1.46	1.47	1.46	2.65	3.57	4.30	600.0	1.85	1.73	1.66	600.0	-187.3	-3.58