

Frequency Mixer

ALY-ED5505/2

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
3500.0	3530.0	9.04	8.34	7.94	3530.0	27.2	27.4	27.3	22.4	21.8	20.7
3800.0	3830.0	9.21	8.61	8.21	3830.0	27.0	28.2	28.4	20.2	22.4	23.8
4100.0	4130.0	8.69	7.99	7.59	4130.0	28.3	28.6	27.6	18.5	20.6	20.8
4400.0	4430.0	7.85	7.35	6.95	4430.0	28.5	28.6	27.6	18.2	19.0	18.1
4700.0	4730.0	9.11	8.81	8.61	4730.0	27.9	28.1	27.3	18.4	18.6	17.3
5000.0	5030.0	7.71	7.51	7.41	5030.0	29.2	28.0	26.9	18.9	18.9	17.7
5300.0	5330.0	8.53	8.23	8.23	5330.0	28.3	27.5	26.6	18.5	19.2	18.4
5600.0	5630.0	7.05	6.85	6.85	5630.0	27.7	26.6	25.4	17.8	19.2	19.2
5900.0	5930.0	7.08	6.58	6.48	5930.0	25.0	24.2	22.8	17.3	19.1	19.8
6200.0	6230.0	6.04	5.74	5.84	6230.0	24.8	23.6	22.2	16.7	18.4	19.5
6500.0	6530.0	5.81	5.41	5.41	6530.0	23.0	22.0	20.4	15.8	16.6	16.9
6800.0	6830.0	5.92	5.42	5.42	6830.0	21.6	21.3	20.0	14.9	14.8	13.8
7000.0	7030.0	5.72	5.42	5.42	7030.0	20.2	20.7	20.0	14.3	14.0	12.7
7100.0	7130.0	5.79	5.49	5.39	7130.0	20.2	20.6	19.9	14.3	13.4	12.4
7400.0	7430.0	5.80	5.60	5.50	7430.0	19.4	20.2	20.4	14.6	14.0	13.2
7500.0	7530.0	5.91	5.71	5.61	7530.0	19.2	20.6	20.5	15.0	14.9	13.6
7700.0	7730.0	6.23	5.93	5.83	7730.0	19.0	20.1	20.9	15.5	15.2	14.5
7900.0	7930.0	6.34	6.04	6.04	7930.0	18.5	20.4	21.2	15.8	15.7	15.0
8000.0	8030.0	6.63	6.23	6.13	8030.0	18.0	19.6	20.8	15.9	16.3	15.3

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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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
3530.0	1.89	1.92	1.96	2.23	1.90	2.26	10.0	1.67	1.52	1.40
3830.0	2.80	2.72	2.65	2.67	2.28	2.72	30.0	1.68	1.52	1.40
4130.0	3.86	3.57	3.38	2.65	2.48	2.90	66.7	1.70	1.54	1.43
4430.0	3.38	3.16	3.11	2.65	2.95	3.86	70.0	1.70	1.54	1.43
4730.0	2.88	2.72	2.68	2.36	2.86	3.75	123.3	1.75	1.60	1.48
5030.0	3.26	3.01	2.88	2.14	2.80	3.73	180.0	1.84	1.67	1.56
5330.0	3.79	3.64	3.64	2.18	2.92	3.96	200.0	1.88	1.71	1.60
5630.0	3.86	3.71	3.57	2.65	3.49	4.79	236.7	1.94	1.78	1.67
5930.0	2.96	2.88	2.88	2.48	2.75	3.36	293.3	2.10	1.92	1.78
6230.0	2.10	2.06	2.06	2.10	2.02	2.24	350.0	2.27	2.08	1.96
6530.0	1.94	2.08	2.23	2.30	1.86	1.84	406.7	2.49	2.27	2.14
6830.0	1.71	1.96	2.14	2.36	1.54	1.12	463.3	2.72	2.46	2.37
7030.0	1.81	2.04	2.27	2.22	1.55	1.43	500.0	2.92	2.65	2.49
7130.0	1.87	2.08	2.32	2.13	1.65	1.71	520.0	2.96	2.68	2.58
7430.0	2.30	2.37	2.46	2.32	2.39	2.78	576.7	3.26	2.96	2.88
7530.0	2.43	2.49	2.58	2.43	2.66	3.24	633.3	3.57	3.21	3.16
7730.0	2.25	2.25	2.25	2.57	3.04	3.88	690.0	3.79	3.44	3.44
7930.0	2.27	2.23	2.23	2.62	3.27	4.14	746.7	4.22	3.79	3.79
8030.0	2.27	2.20	2.20	2.83	3.50	4.29	803.3	4.53	4.12	4.03



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