

Image Reject Mixer

JCIR-4MH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)			RF (IN) (MHz)	LO (MHz)	IMAGE REJECTION IF FIXED @IF(OUT)=70MHz (dBc)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+12	+15	+18			+12	+15	+18			+12	+15	+18			+12	+15	+18
430.0	500.0	7.38	7.19	7.07	570.0	500.0	28.96	29.70	30.26	430.0	500.0	17.71	20.30	23.39	430.0	500.0	0.02	0.02	0.02
455.0	525.0	7.31	7.10	6.97	595.0	525.0	29.20	29.76	30.29	455.0	525.0	17.67	19.79	23.25	455.0	525.0	-0.05	-0.04	-0.04
480.0	550.0	7.23	7.02	6.89	620.0	550.0	28.94	29.53	29.96	480.0	550.0	18.20	20.02	22.65	480.0	550.0	-0.01	-0.01	0.00
505.0	575.0	7.36	7.16	7.04	645.0	575.0	29.15	30.22	31.30	505.0	575.0	17.87	20.58	22.80	505.0	575.0	0.00	0.00	0.00
530.0	600.0	7.38	7.19	7.06	670.0	600.0	29.55	30.95	32.39	530.0	600.0	17.85	20.79	23.97	530.0	600.0	-0.01	-0.01	-0.01
555.0	625.0	7.23	7.04	6.91	695.0	625.0	29.36	30.68	32.51	555.0	625.0	17.52	20.48	23.78	555.0	625.0	0.04	0.03	0.03
580.0	650.0	7.25	7.07	6.96	720.0	650.0	29.49	30.94	32.64	580.0	650.0	16.38	20.16	23.74	580.0	650.0	0.04	0.02	0.01
605.0	675.0	7.42	7.20	7.08	745.0	675.0	29.23	30.98	32.52	605.0	675.0	15.19	19.09	24.24	605.0	675.0	0.03	0.02	0.01
630.0	700.0	7.43	7.18	7.03	770.0	700.0	27.89	30.02	31.75	630.0	700.0	14.28	17.27	22.01	630.0	700.0	0.01	0.02	0.01
655.0	725.0	7.33	7.08	6.91	795.0	725.0	26.90	27.30	28.99	655.0	725.0	14.87	17.69	20.78	655.0	725.0	0.02	0.02	0.03
680.0	750.0	7.43	7.19	7.02	820.0	750.0	27.34	25.96	26.35	680.0	750.0	16.18	18.42	22.83	680.0	750.0	-0.02	-0.02	-0.01
705.0	775.0	7.57	7.30	7.11	845.0	775.0	28.27	25.68	24.99	705.0	775.0	17.41	20.50	24.29	705.0	775.0	-0.03	-0.03	-0.02
730.0	800.0	7.42	7.12	6.92	870.0	800.0	31.66	27.38	24.98	730.0	800.0	18.45	22.22	28.63	730.0	800.0	0.04	0.05	0.05
755.0	825.0	7.39	7.10	6.88	895.0	825.0	35.98	30.68	27.22	755.0	825.0	19.32	24.18	31.91	755.0	825.0	-0.04	-0.03	-0.02
780.0	850.0	7.50	7.20	6.99	920.0	850.0	37.75	32.81	28.72	780.0	850.0	19.77	27.07	27.09	780.0	850.0	0.02	0.03	0.03
805.0	875.0	7.67	7.35	7.13	945.0	875.0	36.08	32.34	28.63	805.0	875.0	20.29	25.34	22.58	805.0	875.0	0.01	0.02	0.03
830.0	900.0	7.60	7.29	7.07	970.0	900.0	32.12	29.70	27.57	830.0	900.0	19.75	27.72	21.71	830.0	900.0	-0.02	-0.02	-0.02
855.0	925.0	7.59	7.28	7.07	995.0	925.0	29.58	26.85	25.36	855.0	925.0	19.43	26.94	21.13	855.0	925.0	-0.02	-0.03	-0.02
880.0	950.0	7.84	7.51	7.33	1020.0	950.0	28.91	25.70	23.63	880.0	950.0	21.52	32.87	22.96	880.0	950.0	-0.01	-0.01	-0.01
905.0	975.0	7.99	7.63	7.43	1045.0	975.0	28.49	25.31	23.41	905.0	975.0	24.06	29.18	23.58	905.0	975.0	0.00	0.00	0.01
930.0	1000.0	7.98	7.55	7.37	1070.0	1000.0	27.05	24.51	23.22	930.0	1000.0	28.36	25.29	23.55	930.0	1000.0	-0.03	-0.01	-0.01

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+12	+15	+18	+12	+15	+18			+12	+15	+18
500.0	52.74	52.81	53.00	32.88	32.68	32.20	430.0	500.0	41.58	41.36	40.89
525.0	52.11	53.47	53.79	32.34	32.16	31.68	455.0	525.0	41.43	42.05	42.40
550.0	50.45	52.32	53.45	31.90	31.63	31.10	480.0	550.0	41.19	42.27	43.53
575.0	48.82	50.75	52.17	31.69	31.51	30.97	505.0	575.0	39.90	41.70	43.22
600.0	47.73	49.22	51.02	31.30	31.38	30.97	530.0	600.0	37.88	38.90	39.73
625.0	47.30	48.45	49.99	30.73	30.88	30.54	555.0	625.0	35.00	35.42	35.70
650.0	47.55	48.94	50.20	30.28	30.47	30.11	580.0	650.0	32.93	33.00	33.13
675.0	47.63	49.82	51.42	29.92	30.30	30.06	605.0	675.0	31.19	31.25	31.39
700.0	47.20	49.99	52.37	29.44	29.92	29.81	630.0	700.0	29.45	29.32	29.32
725.0	46.73	49.97	52.95	29.04	29.41	29.31	655.0	725.0	28.00	27.75	27.62
750.0	46.56	50.32	53.25	28.83	29.17	29.02	680.0	750.0	26.75	26.51	26.35
775.0	46.05	50.56	53.81	28.60	29.09	28.97	705.0	775.0	25.67	25.51	25.41
800.0	45.64	50.37	55.28	28.27	29.05	29.00	730.0	800.0	24.42	24.04	23.95
825.0	45.46	50.08	56.61	27.92	28.95	29.10	755.0	825.0	23.48	22.86	22.66
850.0	45.72	50.04	56.89	27.54	28.74	29.03	780.0	850.0	22.78	22.20	21.76
875.0	46.15	50.37	57.30	27.19	28.46	28.96	805.0	875.0	22.31	21.81	21.43
900.0	46.88	51.12	57.05	26.86	28.24	28.76	830.0	900.0	21.75	21.43	21.18
925.0	47.63	51.45	57.05	26.53	28.01	28.61	855.0	925.0	21.25	21.05	21.09
950.0	48.43	51.94	57.47	26.19	27.81	28.56	880.0	950.0	21.11	21.08	21.26
975.0	49.78	53.26	59.29	25.90	27.61	28.51	905.0	975.0	20.90	20.94	21.17
1000.0	50.97	53.79	60.41	25.51	27.32	28.43	930.0	1000.0	20.48	20.74	20.89

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+12	+15	+18		+12	+15	+18		+12	+15	+18
430.0	500.0	2.25	2.33	2.40	500.0	1.89	2.03	2.22	65.0	1.07	1.07	1.06
455.0	525.0	2.20	2.27	2.34	525.0	1.80	1.91	2.02	65.5	1.07	1.06	1.06
480.0	550.0	2.24	2.32	2.38	550.0	1.71	1.81	1.91	66.0	1.07	1.06	1.06
505.0	575.0	2.20	2.28	2.34	575.0	1.69	1.77	1.88	66.5	1.05	1.06	1.06
530.0	600.0	2.11	2.17	2.22	600.0	1.65	1.72	1.80	67.0	1.04	1.04	1.05
555.0	625.0	2.11	2.17	2.22	625.0	1.59	1.64	1.71	67.5	1.04	1.04	1.04
580.0	650.0	2.13	2.19	2.24	650.0	1.55	1.60	1.67	68.0	1.04	1.04	1.04
605.0	675.0	2.05	2.10	2.14	675.0	1.53	1.57	1.64	68.5	1.04	1.04	1.04
630.0	700.0	2.01	2.05	2.09	700.0	1.49	1.52	1.57	69.0	1.04	1.04	1.04
655.0	725.0	2.06	2.10	2.14	725.0	1.43	1.47	1.51	69.5	1.04	1.05	1.04
680.0	750.0	2.07	2.11	2.15	750.0	1.40	1.43	1.47	70.0	1.04	1.05	1.05
705.0	775.0	2.04	2.06	2.09	775.0	1.38	1.40	1.43	70.5	1.04	1.04	1.05
730.0	800.0	2.11	2.14	2.17	800.0	1.33	1.35	1.37	71.0	1.04	1.04	1.04
755.0	825.0	2.23	2.26	2.29	825.0	1.28	1.29	1.31	71.5	1.05	1.05	1.04
780.0	850.0	2.24	2.27	2.29	850.0	1.25	1.26	1.27	72.0	1.06	1.05	1.05
805.0	875.0	2.29	2.31	2.33	875.0	1.20	1.21	1.22	72.5	1.06	1.05	1.05
830.0	900.0	2.49	2.51	2.53	900.0	1.16	1.16	1.16	73.0	1.06	1.05	1.04
855.0	925.0	2.61	2.62	2.63	925.0	1.13	1.13	1.12	73.5	1.05	1.05	1.04
880.0	950.0	2.60	2.60	2.61	950.0	1.14	1.13	1.12	74.0	1.06	1.05	1.04
905.0	975.0	2.78	2.77	2.78	975.0	1.16	1.16	1.15	74.5	1.07	1.05	1.04
930.0	1000.0	3.06	3.03	3.03	1000.0	1.20	1.20	1.20	75.0	1.08	1.06	1.04



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