

Image Reject Mixer

JCIR-152H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=80MHz (dB)			RF (IN) (MHz)	LO (MHz)	IMAGE REJECTION IF FIXED @IF(OUT)=80MHz (dBc)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF=+11dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+15	+18	+21			+15	+18	+21			+15	+18	+21			+15	+18	+21
1000.00	1080.00	8.27	7.65	7.29	1000.00	1080.00	33.57	31.63	26.90	1000.00	1080.00	25.12	25.03	24.93	1000.00	1080.00	0.31	0.19	0.09
1040.00	1120.00	7.79	7.28	6.96	1040.00	1120.00	33.75	43.89	38.76	1040.00	1120.00	23.79	24.63	25.59	1040.00	1120.00	0.32	0.21	0.12
1080.00	1160.00	7.86	7.27	6.91	1080.00	1160.00	28.97	32.63	35.60	1080.00	1160.00	24.01	24.99	26.29	1080.00	1160.00	0.36	0.24	0.15
1120.00	1200.00	7.56	7.14	6.86	1120.00	1200.00	31.53	38.31	35.45	1120.00	1200.00	23.32	24.42	25.61	1120.00	1200.00	0.32	0.16	0.10
1160.00	1240.00	7.78	7.26	6.93	1160.00	1240.00	34.31	40.17	34.28	1160.00	1240.00	24.15	24.95	26.29	1160.00	1240.00	0.35	0.17	0.06
1200.00	1280.00	7.76	7.24	6.95	1200.00	1280.00	36.65	38.31	43.94	1200.00	1280.00	24.14	24.16	24.63	1200.00	1280.00	0.27	0.13	0.03
1240.00	1320.00	7.94	7.30	6.97	1240.00	1320.00	32.31	31.82	34.66	1240.00	1320.00	25.76	25.95	25.91	1240.00	1320.00	0.24	0.09	0.01
1280.00	1360.00	8.16	7.48	7.12	1280.00	1360.00	32.36	34.28	36.18	1280.00	1360.00	26.49	28.45	26.53	1280.00	1360.00	0.18	0.06	0.03
1320.00	1400.00	8.20	7.42	7.08	1320.00	1400.00	35.23	41.52	40.80	1320.00	1400.00	23.02	30.38	28.59	1320.00	1400.00	0.11	0.01	-0.04
1360.00	1440.00	8.53	7.69	7.34	1360.00	1440.00	31.98	50.03	44.54	1360.00	1440.00	21.54	30.74	29.81	1360.00	1440.00	0.11	0.01	-0.05
1400.00	1480.00	8.57	7.74	7.32	1400.00	1480.00	28.06	32.64	38.79	1400.00	1480.00	19.19	26.99	31.15	1400.00	1480.00	0.05	-0.05	-0.07
1420.00	1500.00	8.49	7.80	7.36	1420.00	1500.00	29.39	30.99	35.74	1420.00	1500.00	19.19	26.25	32.38	1420.00	1500.00	0.05	-0.07	-0.10
1430.00	1510.00	8.57	7.80	7.32	1430.00	1510.00	27.25	29.60	34.50	1430.00	1510.00	19.16	25.64	33.18	1430.00	1510.00	0.01	-0.08	-0.12
1440.00	1520.00	8.80	7.89	7.34	1440.00	1520.00	25.02	28.66	33.78	1440.00	1520.00	18.68	24.90	33.11	1440.00	1520.00	0.04	-0.06	-0.10
1450.00	1530.00	9.14	8.04	7.40	1450.00	1530.00	23.57	27.42	31.21	1450.00	1530.00	17.90	23.71	32.50	1450.00	1530.00	0.01	-0.08	-0.10
1460.00	1540.00	9.39	8.10	7.40	1460.00	1540.00	23.52	26.87	29.93	1460.00	1540.00	17.32	22.76	32.76	1460.00	1540.00	-0.03	-0.09	-0.11
1470.00	1550.00	9.38	8.04	7.33	1470.00	1550.00	23.50	26.62	29.53	1470.00	1550.00	17.19	22.61	33.92	1470.00	1550.00	-0.03	-0.07	-0.09
1480.00	1560.00	9.15	7.87	7.19	1480.00	1560.00	22.74	26.26	29.00	1480.00	1560.00	17.44	23.09	37.87	1480.00	1560.00	-0.07	-0.07	-0.09
1490.00	1570.00	8.93	7.69	7.03	1490.00	1570.00	22.26	26.22	28.85	1490.00	1570.00	17.68	23.55	34.73	1490.00	1570.00	-0.07	-0.03	-0.04
1500.00	1580.00	8.84	7.64	7.03	1500.00	1580.00	21.76	25.96	28.82	1500.00	1580.00	17.64	23.68	31.58	1500.00	1580.00	-0.12	-0.03	-0.06

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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)		
	+15	+18	+21	+15	+18	+21			+15	+18	+21
1080.00	40.54	39.78	39.90	30.81	33.28	35.75	1000.00	1080.00	39.01	39.50	39.53
1120.00	41.13	39.96	39.28	30.67	33.05	35.46	1040.00	1120.00	38.58	39.54	39.41
1160.00	41.81	41.31	39.77	30.60	32.98	35.45	1080.00	1160.00	38.16	39.03	38.68
1200.00	40.54	41.73	40.95	30.51	32.83	35.20	1120.00	1200.00	37.59	38.03	37.52
1240.00	40.23	41.36	41.61	30.56	32.82	35.20	1160.00	1240.00	37.15	36.63	36.03
1280.00	40.97	42.19	44.13	30.62	32.87	35.26	1200.00	1280.00	36.94	35.45	34.54
1320.00	40.91	42.65	44.72	30.82	33.14	35.46	1240.00	1320.00	35.98	33.79	32.67
1360.00	40.40	42.88	44.71	30.92	33.21	35.60	1280.00	1360.00	34.70	32.38	30.98
1400.00	40.01	42.48	44.46	31.12	33.37	35.68	1320.00	1400.00	34.07	31.08	29.64
1440.00	40.09	42.89	44.97	31.29	33.49	35.74	1360.00	1440.00	32.35	29.94	28.57
1480.00	41.17	45.61	48.28	31.63	33.86	36.03	1400.00	1480.00	31.87	29.64	28.24
1500.00	42.13	46.81	49.76	31.61	33.81	35.96	1420.00	1500.00	31.82	29.56	28.17
1510.00	42.53	48.64	52.36	31.69	33.98	36.00	1430.00	1510.00	31.65	29.44	28.10
1520.00	42.57	48.46	52.35	31.87	34.09	36.12	1440.00	1520.00	31.22	29.24	27.92
1530.00	42.29	47.10	50.78	32.02	34.24	36.26	1450.00	1530.00	31.04	29.15	27.86
1540.00	42.25	47.11	51.05	32.16	34.33	36.32	1460.00	1540.00	30.72	28.95	27.71
1550.00	41.99	45.78	49.00	32.23	34.38	36.38	1470.00	1550.00	30.32	28.69	27.46
1560.00	41.48	44.24	47.46	32.33	34.36	36.46	1480.00	1560.00	30.23	28.55	27.35
1570.00	41.32	44.20	47.34	32.26	34.29	36.33	1490.00	1570.00	30.05	28.38	27.16
1580.00	41.00	43.62	46.53	32.31	34.39	36.35	1500.00	1580.00	29.84	28.15	26.96

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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)		
		+15	+18	+21		+15	+18	+21		+15	+18	+21
1000.00	1080.00	2.27	1.93	1.72	1080.00	1.47	1.40	1.33	62.00	1.25	1.30	1.31
1040.00	1120.00	1.99	1.66	1.46	1120.00	1.43	1.36	1.29	64.00	1.26	1.30	1.31
1080.00	1160.00	1.73	1.44	1.26	1160.00	1.47	1.39	1.31	66.00	1.27	1.30	1.31
1120.00	1200.00	1.61	1.35	1.20	1200.00	1.48	1.40	1.33	68.00	1.28	1.31	1.30
1160.00	1240.00	1.57	1.37	1.28	1240.00	1.46	1.38	1.32	70.00	1.29	1.31	1.30
1200.00	1280.00	1.58	1.43	1.39	1280.00	1.54	1.44	1.39	72.00	1.30	1.32	1.30
1240.00	1320.00	1.67	1.50	1.47	1320.00	1.53	1.41	1.35	74.00	1.31	1.32	1.30
1280.00	1360.00	1.68	1.53	1.52	1360.00	1.73	1.56	1.46	76.00	1.32	1.32	1.30
1320.00	1400.00	1.77	1.52	1.47	1400.00	1.70	1.52	1.41	78.00	1.33	1.32	1.30
1360.00	1440.00	1.77	1.49	1.40	1440.00	1.94	1.69	1.54	80.00	1.33	1.33	1.30
1400.00	1480.00	1.81	1.49	1.34	1480.00	1.88	1.66	1.50	82.00	1.34	1.33	1.30
1420.00	1500.00	1.95	1.57	1.38	1500.00	1.91	1.69	1.52	84.00	1.34	1.33	1.30
1430.00	1510.00	1.98	1.60	1.41	1510.00	1.97	1.73	1.56	86.00	1.34	1.32	1.29
1440.00	1520.00	2.00	1.62	1.43	1520.00	2.04	1.79	1.60	88.00	1.34	1.32	1.29
1450.00	1530.00	1.99	1.64	1.45	1530.00	2.08	1.83	1.63	90.00	1.33	1.32	1.29
1460.00	1540.00	2.01	1.66	1.47	1540.00	2.09	1.83	1.64	92.00	1.33	1.31	1.29
1470.00	1550.00	2.03	1.69	1.48	1550.00	2.05	1.81	1.61	94.00	1.32	1.31	1.28
1480.00	1560.00	2.07	1.71	1.49	1560.00	2.01	1.77	1.58	96.00	1.32	1.31	1.28
1490.00	1570.00	2.11	1.73	1.51	1570.00	1.96	1.74	1.56	98.00	1.31	1.30	1.28
1500.00	1580.00	2.15	1.76	1.52	1580.00	1.95	1.72	1.54	100.00	1.30	1.29	1.28



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