

# Image Reject Mixer

# RCIR-42LH+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=20.6 MHz (dB)			RF (IN) (MHz)	LO (MHz)	IMAGE REJECTION IF FIXED @IF(OUT)=20.6 MHz (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)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13			+7	+10	+13
125.0	145.6	6.34	6.12	6.03	125.0	145.6	27.13	29.29	28.49	125.0	145.6	17.89	17.20	18.49	125.0	145.6	0.21	0.11	0.06
140.0	160.6	6.34	6.14	6.04	140.0	160.6	28.59	28.98	26.72	140.0	160.6	20.49	18.37	17.71	140.0	160.6	0.19	0.11	0.06
170.0	190.6	6.33	6.18	6.11	170.0	190.6	29.73	26.24	24.35	170.0	190.6	15.55	14.77	15.31	170.0	190.6	0.17	0.08	0.04
185.0	205.6	6.32	6.19	6.13	185.0	205.6	30.23	27.23	25.77	185.0	205.6	15.01	14.61	16.50	185.0	205.6	0.16	0.07	0.04
205.0	225.6	6.36	6.24	6.19	205.0	225.6	37.77	34.07	30.78	205.0	225.6	16.01	15.60	17.04	205.0	225.6	0.14	0.06	0.03
215.0	235.6	6.36	6.23	6.17	215.0	235.6	38.54	37.66	33.49	215.0	235.6	15.97	15.57	16.92	215.0	235.6	0.16	0.07	0.04
225.0	245.6	6.33	6.19	6.14	225.0	245.6	36.24	38.35	36.04	225.0	245.6	15.80	15.41	16.43	225.0	245.6	0.19	0.11	0.07
252.0	272.6	6.40	6.25	6.18	252.0	272.6	30.19	33.71	38.32	252.0	272.6	14.70	14.47	15.52	252.0	272.6	0.22	0.12	0.08
265.5	286.1	6.40	6.25	6.18	265.5	286.1	28.37	30.66	34.71	265.5	286.1	13.91	13.84	15.44	265.5	286.1	0.24	0.14	0.09
279.0	299.6	6.40	6.25	6.17	279.0	299.6	29.03	31.73	35.80	279.0	299.6	13.44	13.27	14.98	279.0	299.6	0.25	0.14	0.09
292.5	313.1	6.40	6.26	6.19	292.5	313.1	31.48	36.03	38.24	292.5	313.1	12.97	12.70	14.61	292.5	313.1	0.28	0.17	0.11
333.0	353.6	6.36	6.21	6.14	333.0	353.6	39.45	37.31	35.31	333.0	353.6	13.16	13.02	14.90	333.0	353.6	0.25	0.14	0.09
346.5	367.1	6.39	6.25	6.18	346.5	367.1	38.93	37.14	35.75	346.5	367.1	13.26	13.02	14.81	346.5	367.1	0.26	0.16	0.11
360.0	380.6	6.42	6.26	6.19	360.0	380.6	37.18	35.63	34.63	360.0	380.6	13.57	13.11	14.97	360.0	380.6	0.27	0.17	0.11
370.0	390.6	6.45	6.28	6.19	370.0	390.6	36.33	34.96	34.12	370.0	390.6	13.63	12.94	15.04	370.0	390.6	0.24	0.15	0.09
380.0	400.6	6.48	6.30	6.21	380.0	400.6	33.82	32.93	32.54	380.0	400.6	13.58	12.67	14.91	380.0	400.6	0.26	0.16	0.11
390.0	410.6	6.53	6.33	6.23	390.0	410.6	31.74	30.95	30.87	390.0	410.6	13.18	12.31	14.28	390.0	410.6	0.27	0.18	0.12
400.0	420.6	6.55	6.36	6.25	400.0	420.6	29.95	29.18	29.23	400.0	420.6	12.75	12.07	13.59	400.0	420.6	0.28	0.19	0.12
412.5	433.1	6.61	6.42	6.32	412.5	433.1	29.63	28.97	28.79	412.5	433.1	12.35	11.97	13.35	412.5	433.1	0.28	0.18	0.12
425.0	445.6	6.66	6.48	6.38	425.0	445.6	32.49	32.31	31.98	425.0	445.6	12.46	12.09	13.60	425.0	445.6	0.26	0.17	0.11



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IF/RF MICROWAVE COMPONENTS

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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)		
	+7	+10	+13	+7	+10	+13			+7	+10	+13
145.6	59.63	61.62	63.52	51.90	52.24	52.25	125.0	145.6	32.17	32.43	32.61
160.6	58.89	61.12	63.00	51.14	51.63	51.90	140.0	160.6	31.68	32.05	32.27
190.6	57.50	59.43	60.89	47.92	48.44	48.70	170.0	190.6	37.33	37.71	37.91
205.6	57.35	59.15	60.50	46.58	46.97	47.04	185.0	205.6	32.46	32.74	32.96
225.6	56.57	58.44	60.01	45.16	45.45	45.53	205.0	225.6	30.89	31.13	31.30
235.6	56.08	57.82	59.16	44.56	44.78	44.83	215.0	235.6	30.66	30.91	31.05
245.6	55.54	57.23	58.32	43.92	44.11	44.10	225.0	245.6	30.46	30.77	30.92
272.6	54.92	56.85	58.30	42.68	42.73	42.57	252.0	272.6	30.36	30.79	31.02
286.1	54.31	56.20	57.61	42.16	42.18	42.00	265.5	286.1	30.45	30.86	31.11
299.6	53.53	55.26	56.63	41.84	41.74	41.48	279.0	299.6	30.54	31.06	31.35
313.1	52.92	54.42	55.59	41.66	41.43	41.07	292.5	313.1	30.62	31.16	31.49
353.6	52.07	53.36	54.49	41.19	40.59	39.99	333.0	353.6	31.46	31.95	32.35
367.1	51.72	53.04	54.16	41.00	40.32	39.66	346.5	367.1	31.52	32.07	32.45
380.6	51.40	52.59	53.69	40.77	40.06	39.38	360.0	380.6	31.64	32.26	32.65
390.6	51.10	52.29	53.40	40.54	39.84	39.14	370.0	390.6	32.02	32.74	33.21
400.6	50.82	52.04	53.16	40.34	39.64	38.92	380.0	400.6	31.85	32.70	33.29
410.6	50.62	51.81	52.94	40.20	39.48	38.73	390.0	410.6	31.34	32.13	32.74
420.6	50.58	51.73	52.85	40.12	39.37	38.58	400.0	420.6	31.47	32.29	33.00
433.1	50.80	52.01	52.98	40.02	39.29	38.46	412.5	433.1	31.46	32.38	33.29
445.6	51.23	52.46	53.23	40.03	39.17	38.26	425.0	445.6	30.99	31.89	32.78



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# RCIR-42LH+

## 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)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
125.0	145.6	1.80	1.96	2.08	145.6	1.52	1.69	1.82	10.00	1.60	1.46	1.37
140.0	160.6	1.85	2.02	2.15	160.6	1.39	1.50	1.59	11.00	1.51	1.40	1.33
170.0	190.6	1.96	2.11	2.21	190.6	1.23	1.27	1.31	12.00	1.42	1.33	1.26
185.0	205.6	2.00	2.15	2.24	205.6	1.17	1.19	1.21	13.00	1.33	1.26	1.21
205.0	225.6	2.04	2.18	2.27	225.6	1.10	1.10	1.11	14.00	1.24	1.19	1.16
215.0	235.6	2.05	2.20	2.29	235.6	1.06	1.06	1.07	15.00	1.18	1.15	1.13
225.0	245.6	2.04	2.19	2.29	245.6	1.04	1.04	1.05	16.25	1.13	1.11	1.10
252.0	272.6	2.08	2.23	2.32	272.6	1.05	1.07	1.09	17.50	1.09	1.09	1.08
265.5	286.1	2.08	2.22	2.32	286.1	1.07	1.09	1.12	18.75	1.07	1.07	1.07
279.0	299.6	2.10	2.23	2.32	299.6	1.08	1.11	1.14	20.00	1.07	1.07	1.06
292.5	313.1	2.11	2.24	2.32	313.1	1.08	1.12	1.15	23.00	1.11	1.09	1.08
333.0	353.6	2.18	2.28	2.36	353.6	1.06	1.10	1.13	26.00	1.16	1.13	1.11
346.5	367.1	2.18	2.27	2.34	367.1	1.04	1.09	1.12	29.00	1.20	1.17	1.14
360.0	380.6	2.20	2.29	2.35	380.6	1.03	1.07	1.10	32.00	1.23	1.19	1.16
370.0	390.6	2.20	2.29	2.35	390.6	1.02	1.05	1.08	35.00	1.26	1.21	1.18
380.0	400.6	2.21	2.30	2.36	400.6	1.03	1.04	1.06	38.00	1.28	1.23	1.19
390.0	410.6	2.23	2.31	2.37	410.6	1.06	1.04	1.05	41.00	1.31	1.25	1.20
400.0	420.6	2.23	2.31	2.37	420.6	1.09	1.07	1.06	44.00	1.32	1.26	1.22
412.5	433.1	2.25	2.32	2.38	433.1	1.14	1.12	1.10	47.00	1.34	1.27	1.22
425.0	445.6	2.29	2.36	2.41	445.6	1.20	1.18	1.17	50.00	1.35	1.27	1.22

