

Frequency Mixer

SYM-EDR5214/4

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
2400.0	2500.0	6.73	6.57	6.59	2300.0	47.4	44.5	42.9	24.3	25.2	26.1
2416.7	2533.3	6.72	6.56	6.56	2315.4	47.3	44.6	43.6	24.1	25.1	26.0
2433.3	2566.7	6.77	6.63	6.61	2330.8	47.2	44.4	43.4	23.9	24.9	25.8
2450.0	2600.0	6.78	6.64	6.62	2346.2	46.8	43.9	42.7	23.7	24.7	25.6
2466.7	2633.3	6.82	6.63	6.61	2361.5	47.0	43.9	42.6	23.8	24.8	25.7
2483.3	2666.7	6.75	6.58	6.58	2376.9	46.9	43.8	42.9	23.9	24.8	25.7
2500.0	2700.0	6.72	6.56	6.54	2392.3	47.1	43.9	43.2	23.9	24.9	25.8
2500.0	2400.0	6.75	6.60	6.53	2407.7	47.2	43.9	43.3	24.0	25.0	26.0
2520.0	2700.0	6.71	6.69	6.60	2423.1	47.4	43.8	43.0	24.2	25.2	26.1
2533.3	2416.7	6.84	6.70	6.63	2438.5	47.1	43.5	42.1	24.0	25.1	26.0
2566.7	2433.3	6.90	6.74	6.62	2453.8	47.1	43.4	41.7	24.0	25.0	25.9
2575.0	2775.0	6.79	6.60	6.57	2469.2	46.9	43.1	41.5	23.8	24.9	25.7
2589.3	2775.0	6.72	6.58	6.51	2484.6	47.1	43.3	41.7	23.8	24.9	25.7
2600.0	2700.0	6.65	6.51	6.44	2500.0	47.2	43.5	42.0	23.9	24.9	25.8
2600.0	2450.0	6.79	6.61	6.49	2515.4	47.4	43.6	42.1	24.0	25.1	26.0
2600.0	2800.0	6.78	6.69	6.59	2530.8	47.6	43.9	42.0	24.1	25.2	26.1
2603.6	2775.0	6.73	6.56	6.49	2546.2	47.7	44.0	41.9	24.2	25.4	26.3
2617.9	2775.0	6.73	6.57	6.49	2561.5	47.4	43.9	41.8	24.0	25.2	26.1
2630.0	2750.0	6.74	6.65	6.56	2576.9	47.2	43.8	41.8	24.0	25.2	26.0
2632.1	2775.0	6.78	6.62	6.57	2592.3	47.1	44.0	42.2	24.0	25.2	26.0
2633.3	2466.7	6.88	6.72	6.62	2607.7	46.9	44.0	42.4	24.1	25.3	26.1
2646.4	2775.0	6.83	6.67	6.60	2623.1	46.8	44.1	42.3	24.1	25.3	26.2
2650.0	2800.0	6.85	6.71	6.62	2638.5	46.7	44.2	42.3	24.2	25.5	26.4
2660.7	2775.0	6.83	6.68	6.61	2653.8	46.6	44.1	42.4	24.3	25.6	26.5
2666.7	2483.3	6.92	6.77	6.63	2669.2	46.3	44.0	42.4	24.4	25.6	26.4
2675.0	2775.0	6.77	6.60	6.51	2684.6	46.0	44.0	42.6	24.5	25.7	26.4
2700.0	2520.0	6.78	6.59	6.45	2700.0	45.8	44.0	43.0	24.5	25.8	26.6
2700.0	2500.0	6.79	6.60	6.46	2715.4	45.7	44.0	43.0	24.6	25.8	26.7
2700.0	2600.0	6.71	6.59	6.45	2730.8	45.8	44.0	43.0	24.8	26.0	26.8
2750.0	2630.0	6.91	6.72	6.58	2746.2	45.9	44.0	42.9	24.9	26.2	27.0
2775.0	2575.0	6.95	6.74	6.59	2761.5	45.9	44.0	42.9	25.1	26.3	27.1
2775.0	2589.3	6.95	6.78	6.59	2776.9	45.9	43.9	42.7	25.1	26.3	27.0
2775.0	2603.6	6.96	6.80	6.60	2792.3	46.1	44.0	42.8	25.3	26.4	27.1
2775.0	2617.9	6.92	6.78	6.57	2807.7	46.5	44.2	43.0	25.6	26.8	27.4
2775.0	2632.1	6.89	6.75	6.58	2823.1	46.9	44.5	43.1	25.8	27.0	27.7
2775.0	2646.4	6.92	6.78	6.57	2838.5	47.5	45.0	43.2	26.2	27.4	28.2
2775.0	2660.7	6.88	6.74	6.55	2853.8	47.8	45.2	43.2	26.4	27.6	28.4
2775.0	2675.0	6.81	6.71	6.53	2869.2	48.1	45.3	43.0	26.4	27.6	28.4
2800.0	2600.0	6.80	6.60	6.46	2884.6	48.3	45.2	43.0	26.5	27.6	28.4
2800.0	2650.0	6.78	6.63	6.47	2900.0	48.4	45.2	43.1	26.5	27.7	28.5

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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
2300.0	1.62	1.64	1.66	1.89	2.35	2.99	50.0	1.08	1.03	1.04
2315.4	1.61	1.63	1.64	1.88	2.41	2.96	56.4	1.07	1.03	1.06
2330.8	1.61	1.62	1.63	1.90	2.45	3.03	62.8	1.07	1.03	1.06
2346.2	1.60	1.62	1.63	1.96	2.56	3.21	69.2	1.07	1.04	1.07
2361.5	1.60	1.61	1.63	2.01	2.65	3.38	75.6	1.06	1.04	1.08
2376.9	1.59	1.60	1.61	2.02	2.65	3.45	82.1	1.06	1.05	1.08
2392.3	1.58	1.58	1.60	1.98	2.58	3.30	88.5	1.06	1.05	1.09
2407.7	1.57	1.57	1.59	1.94	2.51	3.15	94.9	1.05	1.06	1.11
2423.1	1.58	1.58	1.60	1.96	2.56	3.21	100.0	1.05	1.06	1.11
2438.5	1.59	1.59	1.60	2.02	2.68	3.40	107.7	1.06	1.07	1.11
2453.8	1.58	1.58	1.59	2.08	2.80	3.60	114.1	1.06	1.07	1.12
2469.2	1.58	1.57	1.58	2.10	2.81	3.67	120.5	1.07	1.07	1.12
2484.6	1.57	1.56	1.57	2.05	2.71	3.42	126.9	1.07	1.08	1.12
2500.0	1.58	1.57	1.58	2.00	2.63	3.25	133.3	1.08	1.08	1.12
2515.4	1.60	1.59	1.59	2.05	2.70	3.36	139.7	1.08	1.08	1.12
2530.8	1.63	1.62	1.62	2.13	2.86	3.62	146.2	1.09	1.08	1.11
2546.2	1.59	1.57	1.57	2.19	2.98	3.88	152.6	1.08	1.08	1.12
2561.5	1.64	1.63	1.63	2.18	2.97	3.91	159.0	1.14	1.11	1.11
2576.9	1.62	1.61	1.60	2.13	2.85	3.58	165.4	1.12	1.10	1.12
2592.3	1.69	1.68	1.67	2.08	2.77	3.44	171.8	1.13	1.11	1.12
2607.7	1.73	1.72	1.72	2.12	2.85	3.56	178.2	1.17	1.14	1.13
2623.1	1.72	1.71	1.71	2.22	3.02	3.91	184.6	1.17	1.14	1.13
2638.5	1.69	1.68	1.66	2.27	3.17	4.29	191.0	1.18	1.15	1.14
2653.8	1.68	1.66	1.65	2.29	3.13	4.21	200.0	1.19	1.16	1.15
2669.2	1.69	1.68	1.66	2.24	2.98	3.80	203.8	1.19	1.16	1.15
2684.6	1.73	1.71	1.69	2.20	2.87	3.61	210.3	1.19	1.16	1.15
2700.0	1.75	1.72	1.71	2.24	2.96	3.75	216.7	1.20	1.16	1.16
2715.4	1.72	1.69	1.66	2.33	3.14	4.14	223.1	1.19	1.16	1.15
2730.8	1.69	1.65	1.63	2.42	3.29	4.40	229.5	1.19	1.16	1.16
2746.2	1.69	1.65	1.62	2.36	3.15	4.18	235.9	1.19	1.16	1.16
2761.5	1.72	1.68	1.65	2.25	2.92	3.66	242.3	1.18	1.16	1.16
2776.9	1.76	1.71	1.68	2.22	2.81	3.45	248.7	1.19	1.16	1.16
2792.3	1.77	1.71	1.68	2.25	2.90	3.60	255.1	1.19	1.16	1.16
2807.7	1.74	1.68	1.65	2.36	3.10	3.99	261.5	1.19	1.16	1.16
2823.1	1.72	1.66	1.63	2.40	3.16	4.11	267.9	1.19	1.16	1.16
2838.5	1.74	1.70	1.66	2.31	2.93	3.68	274.4	1.22	1.19	1.18
2853.8	1.77	1.70	1.66	2.18	2.67	3.21	280.8	1.21	1.18	1.18
2869.2	1.79	1.72	1.67	2.11	2.59	3.08	287.2	1.21	1.18	1.17
2884.6	1.77	1.70	1.64	2.21	2.70	3.30	293.6	1.20	1.17	1.16
2900.0	1.73	1.65	1.59	2.34	2.88	3.57	300.0	1.20	1.16	1.16