

Frequency Mixer

SYM-EDR4970/3

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
1350.1	1650.1	7.55	6.87	6.62	1300.1	41.3	48.0	45.7	35.4	38.6	41.0
1360.1	1670.1	7.64	6.93	6.65	1350.1	43.9	52.3	44.5	35.1	38.9	41.7
1370.1	1690.1	7.69	6.99	6.70	1380.1	45.9	52.9	44.2	35.2	39.0	42.4
1380.1	1710.1	7.66	6.95	6.68	1387.2	46.3	53.0	44.2	35.1	38.9	42.4
1390.1	1730.1	7.61	6.91	6.64	1394.3	46.7	53.1	44.2	35.2	39.0	42.6
1400.1	1750.1	7.69	6.97	6.66	1401.4	48.1	52.1	44.1	35.4	39.1	42.7
1410.1	1710.1	7.72	6.98	6.69	1408.4	48.3	52.0	43.9	35.2	39.1	42.8
1420.1	1730.1	7.71	6.96	6.66	1415.5	48.4	51.8	43.7	35.2	39.1	42.9
1430.1	1750.1	7.67	6.92	6.63	1422.6	48.8	51.6	43.6	35.2	39.2	43.1
1440.1	1770.1	7.70	6.90	6.59	1429.7	48.7	51.6	43.5	35.1	39.1	43.2
1445.1	1785.1	7.66	6.86	6.53	1436.8	49.0	50.4	43.3	35.0	39.4	43.5
1465.1	1815.1	7.65	6.84	6.49	1443.9	49.1	50.2	43.2	34.9	39.4	43.7
1465.1	1765.1	7.64	6.81	6.49	1450.9	49.9	50.2	43.3	34.9	39.4	43.8
1475.1	1785.1	7.69	6.86	6.52	1458.0	50.2	50.2	43.5	34.9	39.3	44.0
1500.1	1820.1	7.68	6.79	6.45	1465.1	50.5	50.2	43.5	34.7	39.2	44.1
1515.1	1845.1	7.56	6.74	6.38	1470.1	50.9	50.2	43.6	34.7	39.1	44.1
1530.1	1870.1	7.47	6.57	6.23	1481.5	51.3	50.1	43.8	34.6	39.0	44.1
1550.1	1900.1	7.53	6.61	6.24	1493.0	51.5	50.1	44.0	34.4	38.8	43.9
1650.1	1350.1	6.54	6.13	6.02	1504.4	51.2	49.9	44.0	34.2	38.6	43.7
1670.1	1360.1	6.67	6.24	6.11	1515.8	50.3	50.2	44.2	34.1	38.4	43.5
1690.1	1370.1	6.62	6.22	6.08	1527.2	49.3	50.2	44.2	34.0	38.2	43.2
1710.1	1380.1	6.60	6.20	6.08	1538.7	48.3	49.4	43.9	33.8	38.0	42.9
1710.1	1410.1	6.60	6.25	6.10	1550.1	47.7	48.6	43.7	33.5	37.7	42.4
1730.1	1390.1	6.62	6.22	6.09	1600.1	49.1	48.0	43.9	32.8	36.3	40.1
1730.1	1420.1	6.70	6.32	6.17	1628.7	48.2	49.3	44.4	32.2	35.4	38.9
1750.1	1400.1	6.71	6.30	6.17	1657.2	46.7	51.4	45.5	31.6	34.6	37.7
1750.1	1430.1	6.82	6.35	6.22	1685.8	45.9	53.7	47.0	31.2	33.8	36.6
1765.1	1465.1	6.80	6.33	6.18	1714.4	44.8	55.6	48.4	30.8	33.2	35.7
1770.1	1440.1	6.83	6.37	6.24	1743.0	44.0	55.8	50.2	30.5	32.7	35.0
1785.1	1445.1	6.80	6.34	6.19	1771.5	42.7	53.2	52.9	30.2	32.2	34.3
1785.1	1475.1	6.80	6.33	6.18	1800.1	41.5	50.3	55.1	29.9	31.7	33.7
1815.1	1465.1	6.91	6.39	6.25	1828.7	40.4	48.4	55.1	29.7	31.6	33.3
1820.1	1500.1	6.90	6.38	6.23	1857.2	39.7	46.3	53.3	29.6	31.3	33.0
1845.1	1515.1	6.86	6.32	6.17	1914.4	38.3	43.6	48.8	29.7	31.2	32.8
1870.1	1530.1	6.86	6.32	6.17	1943.0	37.4	42.3	47.1	29.7	31.1	32.7
1900.1	1550.1	6.96	6.38	6.18	2000.1	36.4	40.5	44.4	29.9	31.2	32.6

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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
1300.1	2.78	2.50	2.31	1.51	1.08	1.58	200.1	1.30	1.09	1.03
1342.2	2.72	2.45	2.27	1.56	1.08	1.61	209.0	1.30	1.09	1.03
1380.1	2.63	2.39	2.22	1.52	1.09	1.58	217.9	1.29	1.08	1.04
1400.1	2.61	2.37	2.22	1.49	1.11	1.57	226.8	1.28	1.08	1.04
1420.1	2.55	2.32	2.18	1.50	1.11	1.62	235.7	1.28	1.07	1.04
1440.1	2.52	2.30	2.16	1.52	1.11	1.67	244.5	1.28	1.07	1.05
1450.1	2.52	2.31	2.17	1.48	1.13	1.65	253.4	1.27	1.07	1.05
1465.1	2.50	2.32	2.19	1.48	1.12	1.62	262.3	1.27	1.06	1.05
1510.6	2.43	2.24	2.11	1.47	1.17	1.70	271.2	1.26	1.06	1.06
1531.7	2.46	2.26	2.13	1.46	1.19	1.75	280.1	1.26	1.06	1.06
1552.7	2.44	2.25	2.12	1.44	1.19	1.72	300.1	1.24	1.05	1.07
1573.8	2.38	2.20	2.08	1.45	1.20	1.72	304.3	1.24	1.05	1.07
1594.8	2.35	2.17	2.05	1.45	1.25	1.82	308.4	1.24	1.04	1.08
1615.9	2.35	2.17	2.05	1.41	1.28	1.91	312.6	1.24	1.04	1.08
1636.9	2.29	2.12	2.00	1.41	1.28	1.89	316.8	1.23	1.04	1.08
1658.0	2.21	2.05	1.94	1.41	1.29	1.89	320.9	1.23	1.04	1.08
1679.0	2.17	2.01	1.90	1.41	1.31	1.99	325.1	1.23	1.04	1.08
1700.1	2.13	1.96	1.86	1.38	1.36	2.08	329.3	1.23	1.04	1.08
1710.1	2.09	1.93	1.83	1.37	1.37	2.09	333.4	1.22	1.04	1.08
1720.8	2.04	1.89	1.79	1.37	1.37	2.08	337.6	1.22	1.04	1.09
1731.5	2.00	1.85	1.76	1.36	1.38	2.08	341.8	1.22	1.04	1.09
1742.2	1.96	1.82	1.73	1.35	1.39	2.08	345.9	1.22	1.04	1.09
1753.0	1.93	1.79	1.70	1.34	1.40	2.10	350.1	1.21	1.04	1.09
1763.7	1.90	1.76	1.67	1.34	1.40	2.12	360.1	1.21	1.04	1.10
1774.4	1.87	1.73	1.64	1.34	1.41	2.14	367.6	1.21	1.04	1.10
1785.1	1.83	1.70	1.61	1.34	1.42	2.16	375.1	1.20	1.04	1.10
1790.1	1.82	1.68	1.59	1.34	1.42	2.17	382.6	1.20	1.03	1.10
1809.2	1.75	1.62	1.53	1.32	1.44	2.17	390.1	1.20	1.04	1.11
1828.3	1.70	1.57	1.49	1.34	1.43	2.15	397.6	1.19	1.04	1.11
1847.4	1.65	1.52	1.44	1.30	1.46	2.18	405.1	1.19	1.04	1.11
1866.5	1.60	1.47	1.39	1.30	1.45	2.17	412.6	1.19	1.04	1.11
1885.6	1.55	1.43	1.35	1.28	1.46	2.18	420.1	1.19	1.04	1.11
1904.6	1.52	1.40	1.32	1.28	1.47	2.18	427.6	1.18	1.04	1.12
1923.7	1.49	1.37	1.30	1.29	1.48	2.18	435.1	1.18	1.04	1.12
1961.9	1.44	1.33	1.26	1.27	1.52	2.23	442.6	1.18	1.04	1.12
2000.1	1.45	1.35	1.29	1.28	1.52	2.21	450.1	1.18	1.04	1.12