

Frequency Mixer

SYM-EDR5227

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
1400.0	1645.0	6.64	6.09	5.87	1300.1	29.7	28.9	28.0	42.8	38.5	35.6
1442.9	1688.6	6.70	6.16	5.93	1326.1	29.7	28.7	27.7	42.7	38.4	35.3
1485.7	1732.2	6.70	6.16	5.93	1352.1	29.3	28.6	27.9	42.1	38.4	35.6
1528.6	1775.8	6.66	6.14	5.94	1378.1	29.1	28.5	27.9	41.9	38.5	35.7
1571.4	1819.3	6.71	6.18	5.95	1404.1	29.2	28.4	27.6	42.3	38.5	35.4
1614.3	1862.9	6.68	6.15	5.92	1430.1	29.1	28.2	27.4	42.3	38.6	35.2
1645.0	1400.0	6.86	6.26	5.97	1460.1	28.6	28.1	27.6	41.9	38.7	35.5
1657.2	1906.5	6.79	6.26	6.01	1482.9	28.5	28.1	27.5	41.9	38.8	35.5
1660.0	1409.9	6.91	6.27	6.00	1505.7	28.5	27.9	27.2	42.1	38.9	35.3
1688.6	1442.8	6.81	6.23	5.94	1528.4	28.5	27.9	27.2	42.2	39.0	35.3
1700.0	1950.1	6.84	6.31	6.04	1551.2	28.3	27.9	27.4	42.0	39.2	35.6
1700.0	1945.0	6.89	6.35	6.04	1574.0	28.2	27.9	27.4	42.0	39.4	35.9
1710.0	1465.0	6.79	6.25	5.96	1596.8	28.3	27.7	27.2	42.1	39.4	35.8
1719.0	1469.9	6.84	6.29	5.98	1619.5	28.3	27.8	27.2	42.3	39.4	35.7
1730.0	1976.0	6.99	6.43	6.12	1642.3	28.3	27.8	27.3	42.3	39.6	36.0
1732.1	1485.7	6.83	6.29	5.99	1665.1	28.1	27.8	27.4	42.2	39.9	36.4
1750.0	1504.0	6.89	6.34	6.04	1710.1	28.2	27.8	27.3	42.3	39.5	36.1
1760.0	2007.0	7.09	6.52	6.22	1732.3	28.1	27.8	27.5	42.1	39.3	36.1
1775.7	1528.5	6.89	6.31	6.01	1754.5	28.1	27.9	27.7	41.9	39.3	36.2
1778.0	1529.9	6.88	6.33	6.04	1776.8	28.0	27.9	27.7	41.6	38.9	36.0
1790.0	1543.0	6.86	6.32	6.04	1799.0	28.1	27.9	27.7	41.4	38.7	35.8
1790.0	2038.1	7.16	6.60	6.27	1821.2	28.1	28.0	27.8	41.2	38.4	35.5
1819.3	1571.4	6.88	6.38	6.09	1843.4	28.2	28.1	28.0	41.0	38.2	35.5
1820.0	2069.1	7.32	6.74	6.39	1865.7	28.1	28.1	28.1	40.5	37.9	35.3
1830.0	1581.9	6.90	6.37	6.12	1887.9	28.2	28.1	28.0	40.0	37.4	35.0
1837.0	1590.0	6.92	6.41	6.11	1910.1	28.2	28.1	28.1	39.6	36.8	34.6
1850.0	2100.1	7.59	6.93	6.55	1930.1	28.3	28.2	28.3	39.5	36.6	34.5
1862.9	1614.2	6.97	6.44	6.15	1950.9	28.3	28.4	28.4	39.1	36.3	34.2
1870.0	1620.9	6.96	6.43	6.18	1971.6	28.3	28.4	28.6	38.6	35.9	33.8
1896.0	1650.0	6.97	6.46	6.18	1992.4	28.4	28.4	28.6	38.3	35.6	33.4
1906.4	1657.1	6.99	6.47	6.20	2013.2	28.4	28.5	28.7	37.9	35.3	33.1
1910.0	1659.9	7.00	6.48	6.22	2033.9	28.4	28.6	28.8	37.6	35.0	33.1
1950.0	1705.0	7.13	6.59	6.33	2054.7	28.4	28.6	28.9	37.2	34.9	32.9
1950.0	1699.9	7.14	6.60	6.32	2075.5	28.3	28.5	28.9	36.7	34.4	32.6
1955.0	1710.0	7.17	6.61	6.33	2096.3	28.3	28.4	28.7	36.4	34.1	32.3
1980.0	1734.0	7.21	6.66	6.37	2117.0	28.2	28.3	28.7	35.9	33.8	31.9
2010.0	1763.0	7.29	6.71	6.41	2137.8	28.1	28.3	28.8	35.7	33.7	31.8
2040.0	1791.9	7.45	6.90	6.52	2158.6	27.9	28.1	28.6	35.3	33.4	31.7
2070.0	1820.9	7.56	6.97	6.66	2179.3	27.7	27.9	28.4	35.0	33.0	31.3
2100.0	1849.9	7.61	7.03	6.66	2200.1	27.5	27.8	28.2	34.6	32.7	31.1

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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
1300.1	2.64	2.38	2.18	1.69	1.07	1.49	50.1	1.12	1.11	1.25
1326.1	2.66	2.38	2.18	1.65	1.05	1.48	60.7	1.12	1.11	1.25
1352.1	2.61	2.34	2.15	1.60	1.03	1.46	71.4	1.13	1.11	1.25
1378.1	2.51	2.29	2.12	1.62	1.02	1.48	82.0	1.14	1.12	1.25
1404.1	2.52	2.27	2.10	1.61	1.02	1.50	92.6	1.14	1.12	1.25
1430.1	2.46	2.23	2.06	1.57	1.03	1.49	103.2	1.15	1.13	1.26
1460.1	2.40	2.18	2.02	1.55	1.06	1.51	113.9	1.15	1.13	1.26
1482.9	2.33	2.12	1.97	1.54	1.09	1.56	124.5	1.16	1.13	1.26
1505.7	2.29	2.10	1.94	1.54	1.10	1.57	135.1	1.16	1.14	1.26
1528.4	2.21	2.05	1.89	1.49	1.12	1.56	145.7	1.17	1.14	1.26
1551.2	2.14	2.00	1.83	1.49	1.14	1.59	156.4	1.18	1.15	1.27
1574.0	2.07	1.96	1.80	1.51	1.17	1.64	167.0	1.18	1.15	1.27
1596.8	2.02	1.92	1.77	1.49	1.18	1.66	177.6	1.18	1.16	1.27
1619.5	1.97	1.88	1.74	1.46	1.20	1.65	188.2	1.19	1.16	1.27
1642.3	1.92	1.85	1.72	1.47	1.22	1.69	198.9	1.19	1.17	1.28
1665.1	1.80	1.77	1.64	1.49	1.26	1.80	209.5	1.20	1.17	1.28
1710.1	1.76	1.80	1.67	1.43	1.27	1.76	220.1	1.20	1.18	1.28
1732.3	1.72	1.79	1.66	1.42	1.29	1.80	245.0	1.21	1.19	1.29
1754.5	1.67	1.79	1.66	1.43	1.32	1.87	246.0	1.21	1.19	1.29
1776.8	1.61	1.78	1.66	1.40	1.32	1.83	247.0	1.21	1.19	1.29
1799.0	1.56	1.78	1.66	1.38	1.31	1.80	248.1	1.21	1.19	1.29
1821.2	1.52	1.78	1.65	1.36	1.34	1.85	249.1	1.21	1.19	1.29
1843.4	1.51	1.79	1.66	1.35	1.35	1.88	250.1	1.21	1.19	1.30
1865.7	1.52	1.79	1.66	1.34	1.35	1.82	270.1	1.22	1.20	1.30
1887.9	1.56	1.79	1.67	1.31	1.35	1.81	284.5	1.23	1.21	1.31
1910.1	1.60	1.78	1.66	1.30	1.38	1.86	298.9	1.23	1.21	1.31
1930.1	1.64	1.79	1.67	1.30	1.38	1.87	313.2	1.24	1.22	1.32
1950.9	1.69	1.80	1.68	1.27	1.39	1.83	327.6	1.24	1.23	1.33
1971.6	1.74	1.80	1.68	1.26	1.38	1.82	342.0	1.25	1.24	1.33
1992.4	1.77	1.80	1.68	1.24	1.40	1.86	356.4	1.26	1.25	1.33
2013.2	1.80	1.80	1.68	1.24	1.43	1.91	370.7	1.26	1.25	1.34
2033.9	1.82	1.80	1.68	1.22	1.41	1.86	385.1	1.27	1.25	1.34
2054.7	1.85	1.80	1.69	1.21	1.41	1.85	399.5	1.28	1.26	1.34
2075.5	1.87	1.81	1.70	1.20	1.44	1.90	413.9	1.29	1.27	1.34
2096.3	1.88	1.81	1.70	1.20	1.47	1.95	428.2	1.29	1.27	1.34
2117.0	1.90	1.82	1.70	1.19	1.47	1.93	442.6	1.30	1.27	1.35
2137.8	1.91	1.82	1.71	1.17	1.47	1.90	457.0	1.31	1.28	1.35
2158.6	1.93	1.83	1.73	1.16	1.48	1.94	471.4	1.31	1.28	1.35
2179.3	1.95	1.84	1.73	1.17	1.53	2.02	485.7	1.32	1.29	1.35
2200.1	1.95	1.85	1.74	1.16	1.53	2.01	500.1	1.32	1.29	1.35