

Frequency Mixer

SYM-EDR5125/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
+14	+17	+20	+14	+17	+20	+14	+17	+20						
10.1	40.1	6.34	5.85	5.64	10.1	40.1	31.50	39.09	30.68	10.1	40.1	0.96	0.57	0.38
90.4	120.4	6.21	5.75	5.51	90.4	120.4	25.28	24.30	23.33	90.4	120.4	1.02	0.65	0.47
170.6	200.6	6.29	5.83	5.62	170.6	200.6	21.83	22.89	27.14	170.6	200.6	1.06	0.69	0.47
250.9	280.9	6.38	5.97	5.71	250.9	280.9	21.95	26.74	30.44	250.9	280.9	1.17	0.74	0.57
331.2	361.2	6.60	6.10	5.81	331.2	361.2	24.53	27.93	29.60	331.2	361.2	1.13	0.75	0.60
411.4	441.4	6.83	6.26	5.90	411.4	441.4	24.02	27.52	38.13	411.4	441.4	1.03	0.73	0.61
491.7	521.7	7.11	6.35	5.91	491.7	521.7	23.23	28.82	28.31	491.7	521.7	0.95	0.84	0.76
572.0	602.0	7.33	6.58	6.02	572.0	602.0	23.05	28.84	33.76	572.0	602.0	0.84	0.77	0.73
652.2	682.2	7.42	6.57	6.12	652.2	682.2	21.20	25.36	33.01	652.2	682.2	0.82	0.77	0.66
732.5	762.5	7.50	6.62	6.20	732.5	762.5	26.19	23.32	27.01	732.5	762.5	0.86	0.84	0.68
812.8	842.8	7.42	6.54	6.19	812.8	842.8	29.64	23.78	30.41	812.8	842.8	0.96	0.85	0.61
893.1	923.1	7.27	6.45	6.17	893.1	923.1	23.58	27.74	33.36	893.1	923.1	1.18	0.86	0.57
973.3	1003.3	7.12	6.43	6.17	973.3	1003.3	21.44	29.76	30.42	973.3	1003.3	1.40	0.85	0.56
1053.6	1083.6	7.15	6.50	6.22	1053.6	1083.6	23.62	29.20	28.33	1053.6	1083.6	1.36	0.72	0.49
1133.9	1163.9	7.24	6.60	6.27	1133.9	1163.9	23.13	26.03	27.05	1133.9	1163.9	1.21	0.59	0.45
1214.1	1244.1	7.43	6.68	6.33	1214.1	1244.1	24.23	31.19	30.70	1214.1	1244.1	1.14	0.51	0.36
1294.4	1324.4	7.60	6.69	6.32	1294.4	1324.4	22.99	26.90	29.53	1294.4	1324.4	1.06	0.49	0.33
1374.7	1404.7	7.80	6.73	6.30	1374.7	1404.7	21.06	28.74	27.05	1374.7	1404.7	0.94	0.44	0.30
1454.9	1484.9	7.93	6.80	6.31	1454.9	1484.9	19.79	25.68	27.01	1454.9	1484.9	0.81	0.39	0.26
1535.2	1565.2	8.01	6.85	6.32	1535.2	1565.2	19.56	25.62	28.72	1535.2	1565.2	0.85	0.39	0.25
1615.5	1645.5	8.26	6.96	6.45	1615.5	1645.5	19.45	25.81	29.78	1615.5	1645.5	0.78	0.42	0.25
1695.7	1725.7	8.52	7.06	6.53	1695.7	1725.7	19.22	25.85	31.91	1695.7	1725.7	0.63	0.40	0.23
1776.0	1806.0	8.93	7.33	6.67	1776.0	1806.0	19.36	26.19	29.18	1776.0	1806.0	0.47	0.30	0.23
1856.3	1886.3	9.15	7.54	6.90	1856.3	1886.3	18.82	24.94	31.41	1856.3	1886.3	0.49	0.38	0.23
1936.5	1966.5	9.38	7.76	7.08	1936.5	1966.5	18.05	25.08	32.46	1936.5	1966.5	0.51	0.42	0.27
2016.8	2046.8	9.58	7.91	7.24	2016.8	2046.8	17.61	23.03	28.90	2016.8	2046.8	0.53	0.50	0.33
2097.1	2127.1	9.98	8.24	7.44	2097.1	2127.1	17.38	21.12	30.37	2097.1	2127.1	0.54	0.52	0.40
2157.3	2187.3	10.29	8.44	7.63	2157.3	2187.3	17.56	23.05	33.76	2157.3	2187.3	0.52	0.54	0.42
2237.5	2267.5	10.53	8.68	7.77	2237.5	2267.5	18.38	25.78	28.80	2237.5	2267.5	0.47	0.51	0.46
2297.8	2327.8	10.43	8.79	7.90	2297.8	2327.8	19.53	26.89	28.52	2297.8	2327.8	0.63	0.47	0.43
2378.0	2408.0	10.72	8.94	8.15	2378.0	2408.0	20.21	25.49	27.40	2378.0	2408.0	0.46	0.51	0.46
2438.2	2468.2	10.88	9.00	8.28	2438.2	2468.2	19.89	24.19	25.82	2438.2	2468.2	0.31	0.51	0.47
2518.5	2548.5	10.92	9.17	8.42	2518.5	2548.5	19.61	23.80	24.40	2518.5	2548.5	0.20	0.49	0.52
2578.7	2608.7	10.91	9.29	8.62	2578.7	2608.7	19.64	24.86	24.76	2578.7	2608.7	0.16	0.44	0.46
2659.0	2689.0	10.92	9.24	8.74	2659.0	2689.0	19.48	27.18	26.22	2659.0	2689.0	0.16	0.54	0.40
2719.2	2749.2	10.85	9.28	8.80	2719.2	2749.2	20.57	28.51	27.35	2719.2	2749.2	0.25	0.62	0.43
2799.4	2829.4	10.82	9.55	9.09	2799.4	2829.4	23.94	29.53	28.93	2799.4	2829.4	0.48	0.59	0.37
2859.6	2889.6	10.88	9.68	9.24	2859.6	2889.6	27.05	29.49	27.77	2859.6	2889.6	0.60	0.55	0.33
2939.9	2969.9	10.87	9.77	9.34	2939.9	2969.9	27.97	28.16	28.98	2939.9	2969.9	0.84	0.62	0.39
3000.1	3030.1	10.83	9.93	9.47	3000.1	3030.1	25.71	27.27	28.23	3000.1	3030.1	0.98	0.70	0.46

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
980.0	20.1	7.03	10.0	20.1	6.05	1500.0	500.1	7.57
960.2	39.9	6.98	50.8	60.9	5.99	1459.2	540.9	7.71
940.4	59.7	7.10	91.6	101.7	5.98	1418.4	581.7	7.78
920.6	79.5	7.13	132.5	142.6	5.89	1377.5	622.6	7.72
900.8	99.3	7.10	173.3	183.4	6.01	1336.7	663.4	7.69
881.0	119.1	7.12	214.1	224.2	5.92	1295.9	704.2	7.67
861.2	138.9	7.14	254.9	265.0	5.98	1255.1	745.0	7.61
841.4	158.7	7.08	295.8	305.9	5.99	1214.2	785.9	7.48
821.6	178.5	7.10	336.6	346.7	5.92	1173.4	826.7	7.38
801.8	198.3	7.10	377.4	387.5	5.99	1132.6	867.5	7.28
782.0	218.1	7.04	418.2	428.3	5.96	1091.8	908.3	7.21
762.2	237.9	7.03	459.0	469.1	6.02	1051.0	949.1	7.16
742.4	257.7	7.06	499.9	510.0	6.04	1010.1	990.0	7.09
722.7	277.4	7.14	540.7	550.8	6.09	969.3	1030.8	7.04
702.9	297.2	7.05	581.5	591.6	6.14	928.5	1071.6	7.03
683.1	317.0	7.06	622.3	632.4	6.21	887.7	1112.4	7.01
663.3	336.8	7.11	663.2	673.3	6.33	846.8	1153.3	7.01
643.5	356.6	7.11	704.0	714.1	6.34	806.0	1194.1	7.03
623.7	376.4	7.11	744.8	754.9	6.36	765.2	1234.9	7.02
603.9	396.2	7.11	785.6	795.7	6.42	724.4	1275.7	7.07
564.3	435.8	7.11	826.4	836.5	6.43	683.6	1316.5	7.08
544.5	455.6	7.09	867.3	877.4	6.46	642.7	1357.4	7.11
504.9	495.2	7.00	908.1	918.2	6.49	601.9	1398.2	7.12
485.1	515.0	6.91	948.9	959.0	6.54	561.1	1439.0	7.19
445.5	554.6	7.13	989.7	999.8	6.58	520.3	1479.8	7.30
425.7	574.4	7.04	1030.5	1040.6	6.61	479.5	1520.6	7.34
386.1	614.0	7.14	1071.4	1081.5	6.69	438.6	1561.5	7.39
366.3	633.8	7.05	1112.2	1122.3	6.74	397.8	1602.3	7.43
326.7	673.4	7.09	1153.0	1163.1	6.77	357.0	1643.1	7.43
306.9	693.2	6.99	1193.8	1203.9	6.79	316.2	1683.9	7.50
267.3	732.8	6.96	1234.7	1244.8	6.79	275.3	1724.8	7.54
247.6	752.5	6.85	1255.1	1265.2	6.81	254.9	1745.2	7.59
208.0	792.1	6.81	1295.9	1306.0	6.83	214.1	1786.0	7.61
188.2	811.9	6.72	1316.3	1326.4	6.85	193.7	1806.4	7.67
148.6	851.5	6.68	1357.1	1367.2	6.88	152.9	1847.2	7.67
128.8	871.3	6.63	1377.5	1387.6	6.92	132.5	1867.6	7.71
89.2	910.9	6.52	1418.4	1428.5	6.96	91.6	1908.5	7.71
69.4	930.7	6.49	1438.8	1448.9	6.99	71.2	1928.9	7.73
29.8	970.3	6.44	1479.6	1489.7	7.07	30.4	1969.7	7.84
10.0	990.1	6.45	1500.0	1510.1	7.10	10.0	1990.1	7.79

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
10.1	25.18	28.00	31.01	40.98	44.93	48.33
90.4	35.77	38.87	42.17	42.95	47.71	51.89
170.6	37.50	41.03	44.49	44.44	49.23	50.09
250.9	38.22	41.90	45.86	46.86	48.86	45.16
331.2	38.47	42.49	46.91	49.96	45.64	42.79
411.4	38.34	42.37	47.33	51.95	43.83	41.19
491.7	38.13	42.35	47.58	50.64	42.46	39.78
572.0	37.62	41.68	46.08	48.85	41.88	39.04
652.2	36.98	40.60	43.63	47.73	41.06	38.30
732.5	36.26	39.80	42.46	45.66	40.18	37.48
812.8	36.21	39.13	40.69	43.57	39.53	37.04
893.1	36.11	38.33	39.12	42.17	38.92	37.07
973.3	35.46	37.15	37.61	40.58	37.95	36.30
1053.6	34.18	35.93	36.41	38.83	37.39	35.87
1133.9	33.10	34.82	35.67	37.40	36.74	35.77
1214.1	32.07	34.31	35.24	36.19	36.44	35.81
1294.4	30.91	33.37	34.58	35.75	36.42	36.03
1374.7	30.15	32.65	33.92	35.36	36.08	35.83
1454.9	29.90	32.26	33.69	34.88	35.89	35.89
1535.2	30.12	32.41	34.05	34.50	35.59	35.93
1615.5	30.36	32.72	34.51	34.15	35.40	35.82
1695.7	30.06	32.95	35.35	33.52	35.11	35.71
1776.0	29.78	32.51	35.30	32.66	34.10	35.20
1856.3	29.70	32.19	34.47	31.86	33.07	34.29
1936.5	29.47	31.92	34.38	31.26	32.31	33.48
2016.8	29.22	31.57	34.19	30.89	31.91	32.85
2097.1	29.17	31.19	33.50	30.68	31.35	32.46
2157.3	29.34	31.10	33.30	30.73	31.07	31.77
2237.5	29.67	31.45	33.52	30.60	30.68	31.07
2297.8	29.91	31.63	33.54	30.82	30.70	30.83
2378.0	30.69	32.27	33.83	30.72	30.78	31.06
2438.2	31.49	33.19	34.61	30.42	30.59	31.27
2518.5	32.36	33.68	35.18	30.09	30.28	31.35
2578.7	33.42	34.34	35.78	29.68	29.92	31.05
2659.0	34.73	35.14	35.76	28.98	29.56	30.59
2719.2	34.93	34.80	34.88	28.50	29.23	30.26
2799.4	34.44	34.42	33.16	28.39	29.14	30.08
2859.6	34.11	34.39	32.61	28.15	29.00	29.92
2939.9	33.55	34.03	32.44	27.89	28.93	29.83
3000.1	33.10	33.38	32.22	27.90	28.95	29.90

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	32.53	32.26	31.92
90.4	120.4	32.86	32.52	32.29
170.6	200.6	33.48	33.29	33.93
250.9	280.9	34.39	35.01	35.80
331.2	361.2	35.38	36.01	36.32
411.4	441.4	36.29	36.17	36.43
491.7	521.7	36.98	36.82	36.67
572.0	602.0	37.23	37.28	37.01
652.2	682.2	39.15	38.12	37.06
732.5	762.5	42.45	40.80	39.96
812.8	842.8	44.31	44.57	44.05
893.1	923.1	43.88	48.06	49.38
973.3	1003.3	44.94	48.25	52.57
1053.6	1083.6	42.59	43.30	45.23
1133.9	1163.9	40.30	40.06	40.47
1214.1	1244.1	39.24	38.14	37.67
1294.4	1324.4	38.40	36.64	36.21
1374.7	1404.7	37.68	35.90	35.42
1454.9	1484.9	37.31	35.55	35.16
1535.2	1565.2	35.84	35.16	34.57
1615.5	1645.5	35.07	35.07	35.01
1695.7	1725.7	33.49	35.39	35.36
1776.0	1806.0	31.57	34.76	35.73
1856.3	1886.3	30.50	34.12	35.34
1936.5	1966.5	29.68	33.29	34.99
2016.8	2046.8	28.84	31.95	33.87
2097.1	2127.1	28.25	31.07	32.93
2157.3	2187.3	27.91	30.82	32.56
2237.5	2267.5	28.29	31.23	32.90
2297.8	2327.8	28.83	32.23	33.95
2378.0	2408.0	29.31	33.26	35.39
2438.2	2468.2	29.99	34.35	36.68
2518.5	2548.5	31.65	36.35	40.00
2578.7	2608.7	32.62	38.57	41.14
2659.0	2689.0	34.33	42.16	46.27
2719.2	2749.2	35.15	42.81	46.59
2799.4	2829.4	36.06	41.79	43.69
2859.6	2889.6	36.44	40.75	41.92
2939.9	2969.9	36.37	38.54	39.69
3000.1	3030.1	35.94	37.26	37.68

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2000.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.54	1.45	1.41	10.1	1.38	1.67	2.37	10.0	2.30	1.51	1.24
90.4	120.4	1.36	1.20	1.10	90.4	1.05	1.56	2.27	49.7	2.26	1.50	1.20
170.6	200.6	1.41	1.26	1.18	170.6	1.04	1.55	2.27	89.5	2.27	1.52	1.20
250.9	280.9	1.51	1.38	1.28	250.9	1.02	1.57	2.30	129.2	2.25	1.50	1.20
331.2	361.2	1.66	1.51	1.41	331.2	1.04	1.58	2.30	168.9	2.21	1.47	1.17
411.4	441.4	1.84	1.66	1.55	411.4	1.06	1.58	2.25	208.7	2.22	1.47	1.17
491.7	521.7	2.03	1.80	1.66	491.7	1.07	1.56	2.19	248.4	2.15	1.43	1.14
572.0	602.0	2.17	1.95	1.79	572.0	1.07	1.54	2.15	288.1	2.13	1.41	1.13
652.2	682.2	2.29	2.03	1.87	652.2	1.08	1.54	2.13	327.9	2.10	1.38	1.11
732.5	762.5	2.41	2.14	2.00	732.5	1.06	1.54	2.12	367.6	2.03	1.35	1.09
812.8	842.8	2.46	2.20	2.07	812.8	1.05	1.51	2.09	407.3	2.01	1.32	1.06
893.1	923.1	2.40	2.16	2.04	893.1	1.12	1.50	2.06	447.1	1.94	1.29	1.04
973.3	1003.3	2.26	2.05	1.94	973.3	1.19	1.50	2.03	486.8	1.88	1.25	1.01
1053.6	1083.6	2.20	1.99	1.89	1053.6	1.25	1.51	2.01	526.5	1.87	1.23	1.01
1133.9	1163.9	2.20	1.98	1.87	1133.9	1.26	1.51	2.00	566.3	1.79	1.19	1.05
1214.1	1244.1	2.15	1.90	1.82	1214.1	1.25	1.50	1.97	606.0	1.77	1.18	1.06
1294.4	1324.4	1.97	1.76	1.69	1294.4	1.25	1.50	1.95	645.7	1.76	1.17	1.06
1374.7	1404.7	1.77	1.60	1.53	1374.7	1.28	1.52	1.94	685.5	1.69	1.13	1.10
1454.9	1484.9	1.59	1.48	1.39	1454.9	1.31	1.54	1.94	725.2	1.71	1.15	1.10
1535.2	1565.2	1.52	1.42	1.34	1535.2	1.36	1.55	1.95	764.9	1.66	1.11	1.12
1615.5	1645.5	1.49	1.36	1.29	1615.5	1.43	1.55	1.92	804.7	1.63	1.12	1.15
1695.7	1725.7	1.45	1.29	1.23	1695.7	1.53	1.58	1.90	844.4	1.63	1.12	1.15
1776.0	1806.0	1.39	1.23	1.18	1776.0	1.62	1.62	1.89	884.1	1.58	1.10	1.18
1856.3	1886.3	1.30	1.14	1.12	1856.3	1.68	1.64	1.88	923.9	1.57	1.11	1.19
1936.5	1966.5	1.29	1.07	1.07	1936.5	1.72	1.64	1.83	963.6	1.55	1.11	1.21
2016.8	2046.8	1.34	1.08	1.04	2016.8	1.75	1.63	1.77	1003.3	1.51	1.12	1.23
2097.1	2127.1	1.33	1.10	1.04	2097.1	1.76	1.62	1.70	1043.1	1.52	1.14	1.24
2157.3	2187.3	1.32	1.11	1.11	2157.3	1.75	1.59	1.63	1082.8	1.52	1.14	1.24
2237.5	2267.5	1.42	1.29	1.30	2237.5	1.74	1.54	1.54	1122.5	1.47	1.14	1.25
2297.8	2327.8	1.62	1.51	1.50	2297.8	1.74	1.52	1.47	1162.3	1.49	1.17	1.27
2378.0	2408.0	1.95	1.81	1.77	2378.0	1.73	1.47	1.38	1202.0	1.48	1.15	1.25
2438.2	2468.2	2.16	1.97	1.93	2438.2	1.70	1.43	1.31	1241.7	1.48	1.20	1.30
2518.5	2548.5	2.35	2.15	2.09	2518.5	1.68	1.38	1.24	1281.5	1.54	1.21	1.26
2578.7	2608.7	2.54	2.32	2.26	2578.7	1.65	1.34	1.18	1321.2	1.48	1.19	1.27
2659.0	2689.0	2.94	2.67	2.59	2659.0	1.58	1.26	1.11	1360.9	1.54	1.27	1.31
2719.2	2749.2	3.40	3.07	2.92	2719.2	1.52	1.21	1.05	1380.8	1.55	1.26	1.28
2799.4	2829.4	3.91	3.56	3.29	2799.4	1.47	1.16	1.02	1420.5	1.52	1.25	1.29
2859.6	2889.6	4.08	3.72	3.40	2859.6	1.41	1.12	1.07	1440.4	1.52	1.28	1.33
2939.9	2969.9	4.00	3.69	3.40	2939.9	1.34	1.11	1.13	1480.1	1.61	1.33	1.33
3000.1	3030.1	3.91	3.66	3.39	3000.1	1.30	1.12	1.17	1500.0	1.61	1.32	1.31

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	13	27	27	31	32	38	31	48	57
1	-	38	+0	58	15	51	24	49	39	49	39	46
2	>100	61	60	57	70	60	68	62	68	70	71	58
3	>100	80	68	80	71	85	70	92	68	90	72	88
4	>100	>92	>92	>92	>92	89	>92	>92	>92	>92	>92	>92
5	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
6	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
7	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
8	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	>100	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1000.1 MHz; -1.00 dBm.
LO IN: 1030.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -7.63 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	24	38	39	45	47	53	49	58	67
1	-	36	+0	48	15	50	25	51	42	54	47	53
2	85	49	50	46	59	51	60	58	62	59	69	53
3	>100	56	46	56	47	62	54	79	54	70	58	66
4	>100	71	83	81	82	80	75	74	70	63	69	67
5	>100	86	63	77	63	76	61	81	64	81	64	90
6	>100	87	97	92	94	88	92	79	83	80	82	81
7	>100	94	97	>102	80	91	80	88	76	87	78	88
8	>100	99	>102	100	>102	>102	>102	97	99	91	98	88
9	>100	>102	102	>102	>102	>102	95	>102	93	97	94	98
10	>100	>102	>102	>102	>102	>102	>102	>102	>102	>102	>102	101
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 1000.1 MHz; 9.00 dBm.
LO IN: 1030.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 2.35 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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