

Frequency Mixer

ADE-ED13321/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=73MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
+14	+17	+20	+14	+17	+20	+14	+17	+20						
10.1	83.1	7.44	7.04	6.83	10.1	83.1	22.60	26.44	30.91	10.1	83.1	1.78	0.85	0.46
70.1	143.1	8.18	7.70	7.47	70.1	143.1	22.72	29.27	25.12	70.1	143.1	1.47	0.65	0.36
130.1	203.1	7.93	7.38	7.17	130.1	203.1	24.40	23.50	26.36	130.1	203.1	1.40	0.68	0.38
190.1	263.1	7.80	7.38	7.24	190.1	263.1	21.41	23.75	29.21	190.1	263.1	1.60	0.76	0.41
250.1	323.1	7.72	7.30	7.16	250.1	323.1	21.05	25.75	29.82	250.1	323.1	1.58	0.75	0.43
310.1	383.1	7.97	7.59	7.43	310.1	383.1	20.53	24.50	28.05	310.1	383.1	1.53	0.75	0.46
370.1	443.1	7.83	7.52	7.39	370.1	443.1	21.62	26.84	31.27	370.1	443.1	1.65	0.83	0.51
430.1	503.1	7.85	7.51	7.36	430.1	503.1	23.39	29.78	32.83	430.1	503.1	1.60	0.80	0.51
490.1	563.1	7.90	7.55	7.41	490.1	563.1	22.96	27.56	30.76	490.1	563.1	1.63	0.83	0.53
560.1	633.1	7.89	7.57	7.42	560.1	633.1	22.99	28.18	38.81	560.1	633.1	1.63	0.88	0.59
620.1	693.1	7.90	7.56	7.40	620.1	693.1	24.06	30.38	34.17	620.1	693.1	1.64	0.84	0.58
690.1	763.1	7.83	7.50	7.36	690.1	763.1	23.37	26.95	32.61	690.1	763.1	1.67	0.89	0.64
750.1	823.1	7.90	7.57	7.42	750.1	823.1	23.89	29.66	35.03	750.1	823.1	1.67	0.83	0.59
820.1	893.1	7.90	7.58	7.43	820.1	893.1	26.63	30.68	28.24	820.1	893.1	1.69	0.80	0.59
880.1	953.1	7.97	7.66	7.50	880.1	953.1	26.88	29.07	28.15	880.1	953.1	1.59	0.78	0.59
950.1	1023.1	7.91	7.62	7.47	950.1	1023.1	24.77	28.90	27.24	950.1	1023.1	1.73	0.83	0.65
1010.1	1083.1	7.95	7.69	7.54	1010.1	1083.1	24.26	27.70	28.45	1010.1	1083.1	1.75	0.78	0.59
1080.1	1153.1	7.87	7.64	7.55	1080.1	1153.1	23.49	26.84	26.82	1080.1	1153.1	1.78	0.78	0.51
1140.1	1213.1	7.99	7.73	7.62	1140.1	1213.1	24.43	27.76	29.58	1140.1	1213.1	1.79	0.72	0.43
1210.1	1283.1	7.97	7.72	7.61	1210.1	1283.1	24.85	27.63	30.83	1210.1	1283.1	1.82	0.74	0.45
1270.1	1343.1	8.00	7.73	7.60	1270.1	1343.1	24.97	27.13	31.21	1270.1	1343.1	1.69	0.68	0.41
1340.1	1413.1	8.00	7.70	7.57	1340.1	1413.1	24.84	25.73	28.16	1340.1	1413.1	1.80	0.74	0.48
1400.1	1473.1	8.03	7.72	7.57	1400.1	1473.1	25.62	28.06	29.81	1400.1	1473.1	1.80	0.79	0.53
1470.1	1543.1	7.95	7.63	7.49	1470.1	1543.1	25.31	28.05	28.38	1470.1	1543.1	1.85	0.90	0.65
1530.1	1603.1	8.13	7.78	7.61	1530.1	1603.1	25.69	28.73	30.86	1530.1	1603.1	1.87	0.92	0.65
1600.1	1673.1	8.12	7.79	7.64	1600.1	1673.1	25.19	26.55	26.30	1600.1	1673.1	1.98	1.08	0.78
1660.1	1733.1	8.11	7.77	7.62	1660.1	1733.1	25.32	27.19	26.20	1660.1	1733.1	2.04	1.23	0.93
1730.1	1803.1	8.26	7.87	7.70	1730.1	1803.1	24.61	25.92	25.64	1730.1	1803.1	2.18	1.47	1.15
1790.1	1863.1	8.44	8.01	7.83	1790.1	1863.1	22.81	24.01	24.61	1790.1	1863.1	2.32	1.69	1.33
1860.1	1933.1	8.57	8.08	7.88	1860.1	1933.1	22.68	25.18	26.50	1860.1	1933.1	2.50	1.88	1.45
1920.1	1993.1	9.16	8.47	8.16	1920.1	1993.1	20.29	25.03	30.26	1920.1	1993.1	2.30	1.89	1.46
1990.1	2063.1	9.81	9.04	8.56	1990.1	2063.1	19.14	21.21	26.49	1990.1	2063.1	2.04	1.68	1.42
2050.1	2123.1	10.11	9.26	8.76	2050.1	2123.1	19.59	21.34	23.36	2050.1	2123.1	1.84	1.55	1.29
2120.1	2193.1	10.87	9.82	9.22	2120.1	2193.1	19.87	22.04	23.71	2120.1	2193.1	1.18	1.10	0.97
2180.1	2253.1	11.35	10.20	9.51	2180.1	2253.1	20.92	23.55	26.00	2180.1	2253.1	0.86	0.88	0.83
2250.1	2323.1	11.45	10.26	9.49	2250.1	2323.1	21.91	25.91	33.11	2250.1	2323.1	0.59	0.69	0.71
2310.1	2383.1	11.88	10.63	9.81	2310.1	2383.1	22.56	26.36	33.14	2310.1	2383.1	0.23	0.39	0.46
2380.1	2453.1	11.93	10.73	9.92	2380.1	2453.1	23.73	27.57	31.52	2380.1	2453.1	0.19	0.35	0.42
2440.1	2513.1	11.61	10.53	9.74	2440.1	2513.1	24.83	28.11	29.65	2440.1	2513.1	0.22	0.33	0.39
2510.1	2583.1	11.81	10.65	9.94	2510.1	2583.1	26.62	29.02	29.10	2510.1	2583.1	0.14	0.22	0.28

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=900.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=800.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
890.0	10.1	7.30	10.0	810.1	7.98	990.0	10.1	7.36
841.6	58.5	7.37	110.0	910.1	7.59	970.0	30.1	7.40
793.1	107.0	7.44	210.0	1010.1	7.46	950.0	50.1	7.47
744.7	155.4	7.41	310.0	1110.1	7.43	930.0	70.1	7.45
696.2	203.9	7.38	410.0	1210.1	7.32	910.0	90.1	7.43
647.8	252.3	7.30	510.0	1310.1	7.24	890.0	110.1	7.48
599.4	300.7	7.30	610.0	1410.1	7.15	870.0	130.1	7.38
550.9	349.2	7.32	710.0	1510.1	6.93	850.0	150.1	7.39
502.5	397.6	7.33	790.0	1590.1	6.65	830.0	170.1	7.39
454.0	446.1	7.30	890.0	1690.1	6.41	810.0	190.1	7.40
405.6	494.5	7.29	970.0	1770.1	6.32	790.0	210.1	7.41
365.2	534.9	7.29	1070.0	1870.1	6.29	770.0	230.1	7.32
316.8	583.3	7.31	1150.0	1950.1	6.32	750.0	250.1	7.29
276.4	623.7	7.35	1250.0	2050.1	6.45	730.0	270.1	7.35
228.0	672.1	7.40	1330.0	2130.1	6.60	710.0	290.1	7.32
187.6	712.5	7.46	1430.0	2230.1	6.84	690.0	310.1	7.33
139.2	760.9	7.55	1510.0	2310.1	7.05	670.0	330.1	7.31
98.8	801.3	7.58	1610.0	2410.1	7.46	650.0	350.1	7.31
50.4	849.7	7.64	1690.0	2490.1	7.86	630.0	370.1	7.28
10.0	890.1	8.13	1790.0	2590.1	8.38	610.0	390.1	7.29
169.6	1069.7	7.52	1870.0	2670.1	8.72	570.0	430.1	7.31
329.3	1229.4	7.40	1970.0	2770.1	8.95	550.0	450.1	7.33
520.8	1420.9	7.20	2050.0	2850.1	9.08	510.0	490.1	7.32
680.5	1580.6	6.82	2150.0	2950.1	8.99	490.0	510.1	7.27
872.0	1772.1	6.25	2230.0	3030.1	8.95	450.0	550.1	7.32
1031.7	1931.8	6.28	2330.0	3130.1	8.89	430.0	570.1	7.33
1223.2	2123.3	6.53	2410.0	3210.1	8.89	390.0	610.1	7.34
1382.8	2282.9	6.85	2510.0	3310.1	9.01	370.0	630.1	7.33
1574.4	2474.5	7.60	2590.0	3390.1	9.11	330.0	670.1	7.37
1734.0	2634.1	8.43	2690.0	3490.1	9.30	310.0	690.1	7.38
1925.6	2825.7	9.06	2770.0	3570.1	9.38	270.0	730.1	7.52
2085.2	2985.3	9.26	2870.0	3670.1	9.49	250.0	750.1	7.58
2276.8	3176.9	9.26	2950.0	3750.1	9.54	210.0	790.1	7.58
2436.4	3336.5	9.46	3050.0	3850.1	9.55	190.0	810.1	7.54
2628.0	3528.1	9.62	3130.0	3930.1	9.54	150.0	850.1	7.54
2787.6	3687.7	9.71	3230.0	4030.1	9.47	130.0	870.1	7.52
2979.2	3879.3	9.74	3310.0	4110.1	9.47	90.0	910.1	7.56
3138.8	4038.9	9.57	3410.0	4210.1	9.38	70.0	930.1	7.62
3330.4	4230.5	9.45	3490.0	4290.1	9.36	30.0	970.1	7.66
3490.0	4390.1	9.45	3590.0	4390.1	9.28	10.0	990.1	8.06

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
83.1	29.90	33.19	36.48	30.58	34.02	37.57
143.1	29.92	33.66	37.21	29.97	33.89	37.84
203.1	30.36	33.96	37.32	30.28	34.34	37.66
263.1	29.72	33.17	36.67	30.88	34.60	37.84
323.1	30.54	34.32	38.03	30.97	34.86	38.02
383.1	30.02	33.70	37.65	30.62	34.33	37.59
443.1	30.09	33.84	38.01	31.18	34.92	38.07
503.1	31.47	35.38	39.71	32.38	36.07	38.75
563.1	30.73	35.04	39.65	32.17	36.49	39.34
633.1	31.53	36.13	41.62	32.58	37.00	39.78
693.1	31.65	36.45	42.24	33.30	37.86	40.45
763.1	32.55	37.31	43.39	34.12	38.57	41.28
823.1	32.39	37.11	43.50	35.08	39.56	42.20
893.1	33.87	38.58	45.07	36.47	40.91	43.38
953.1	34.08	38.45	44.49	37.71	41.92	44.64
1023.1	36.07	40.10	46.07	39.46	43.05	44.87
1083.1	38.20	42.24	50.47	39.65	42.55	42.75
1153.1	41.50	45.92	54.40	39.79	42.16	42.10
1213.1	41.23	48.05	65.57	40.06	42.00	40.97
1283.1	42.11	50.32	62.46	40.80	42.67	41.20
1343.1	41.26	49.59	59.21	41.71	43.46	41.39
1413.1	40.55	48.00	70.91	41.99	43.13	40.83
1473.1	39.68	46.38	61.00	42.15	43.29	40.98
1543.1	39.20	44.76	53.08	42.34	43.02	40.74
1603.1	37.80	42.14	47.33	42.00	42.83	41.05
1673.1	37.20	40.47	43.74	42.05	43.04	42.09
1733.1	35.97	38.59	41.20	42.23	43.27	42.47
1803.1	35.08	36.87	38.62	41.58	43.31	43.89
1863.1	34.50	35.71	36.86	41.49	43.63	45.43
1933.1	34.44	35.23	36.04	40.71	42.72	44.83
1993.1	34.10	34.54	35.00	40.15	42.00	44.27
2063.1	34.48	34.81	35.07	39.47	40.96	42.73
2123.1	34.12	34.44	34.62	38.78	40.19	41.65
2193.1	33.59	33.68	33.88	37.96	39.18	40.57
2253.1	32.69	32.72	32.92	37.34	38.18	39.22
2323.1	31.70	31.67	31.71	36.82	37.43	38.01
2383.1	31.50	31.28	31.13	35.91	36.49	36.90
2453.1	30.96	30.77	30.62	34.73	35.31	35.72
2513.1	30.13	29.87	29.59	34.30	34.79	35.09
2583.1	29.55	29.12	29.07	33.94	34.25	34.64

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	83.1	31.67	34.71	38.52
70.1	143.1	32.41	36.87	41.36
130.1	203.1	33.13	35.93	37.10
190.1	263.1	33.85	35.33	35.74
250.1	323.1	33.68	34.96	35.91
310.1	383.1	33.76	34.54	35.05
370.1	443.1	33.44	34.07	34.34
430.1	503.1	33.42	34.19	34.57
490.1	563.1	34.13	34.57	34.92
560.1	633.1	34.02	34.16	34.43
620.1	693.1	33.68	33.55	33.72
690.1	763.1	33.61	33.71	33.92
750.1	823.1	34.26	34.51	34.80
820.1	893.1	33.88	34.12	34.56
880.1	953.1	33.63	34.44	35.55
950.1	1023.1	33.07	33.37	34.50
1010.1	1083.1	33.42	33.38	33.84
1080.1	1153.1	33.71	33.23	33.94
1140.1	1213.1	34.28	33.31	33.26
1210.1	1283.1	35.54	34.79	34.92
1270.1	1343.1	36.84	36.29	36.74
1340.1	1413.1	39.04	37.78	37.03
1400.1	1473.1	39.61	38.79	37.24
1470.1	1543.1	39.61	38.76	37.16
1530.1	1603.1	39.52	37.59	34.71
1600.1	1673.1	39.04	37.15	34.81
1660.1	1733.1	38.04	36.27	33.42
1730.1	1803.1	36.84	36.87	34.77
1790.1	1863.1	36.21	36.97	36.47
1860.1	1933.1	35.67	36.80	36.90
1920.1	1993.1	34.35	35.68	35.90
1990.1	2063.1	32.86	33.76	34.53
2050.1	2123.1	32.12	32.55	32.98
2120.1	2193.1	31.21	31.45	31.65
2180.1	2253.1	30.76	31.22	31.46
2250.1	2323.1	29.21	29.74	30.15
2310.1	2383.1	28.34	28.73	29.20
2380.1	2453.1	27.53	27.95	28.49
2440.1	2513.1	26.82	27.22	27.67
2510.1	2583.1	26.12	26.52	26.96

Frequency Mixer

ADE-ED13321/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	83.1	1.05	1.12	1.23	83.1	1.06	1.55	2.32	10.0	1.12	1.17	1.25
70.1	143.1	1.05	1.20	1.33	143.1	1.06	1.59	2.37	30.0	1.01	1.10	1.19
130.1	203.1	1.04	1.19	1.29	203.1	1.08	1.54	2.24	50.0	1.02	1.11	1.20
190.1	263.1	1.09	1.22	1.30	263.1	1.10	1.53	2.23	70.0	1.04	1.10	1.19
250.1	323.1	1.10	1.22	1.30	323.1	1.12	1.59	2.32	90.0	1.05	1.14	1.23
310.1	383.1	1.11	1.19	1.27	383.1	1.12	1.58	2.27	110.0	1.04	1.09	1.17
370.1	443.1	1.14	1.22	1.30	443.1	1.10	1.62	2.34	130.0	1.06	1.13	1.22
430.1	503.1	1.16	1.23	1.30	503.1	1.11	1.65	2.38	150.0	1.07	1.10	1.18
490.1	563.1	1.20	1.25	1.31	563.1	1.11	1.67	2.39	170.0	1.09	1.15	1.23
560.1	633.1	1.24	1.27	1.32	633.1	1.14	1.73	2.46	190.0	1.06	1.10	1.18
620.1	693.1	1.26	1.29	1.34	693.1	1.17	1.78	2.52	210.0	1.11	1.16	1.23
690.1	763.1	1.32	1.33	1.37	763.1	1.20	1.81	2.55	230.0	1.09	1.13	1.20
750.1	823.1	1.36	1.38	1.41	823.1	1.23	1.87	2.63	250.0	1.15	1.18	1.24
820.1	893.1	1.39	1.40	1.44	893.1	1.28	1.92	2.71	270.0	1.11	1.15	1.23
880.1	953.1	1.42	1.43	1.46	953.1	1.31	1.96	2.74	290.0	1.16	1.18	1.24
950.1	1023.1	1.44	1.47	1.52	1023.1	1.36	2.02	2.82	310.0	1.14	1.18	1.25
1010.1	1083.1	1.41	1.44	1.49	1083.1	1.39	2.05	2.83	330.0	1.18	1.20	1.25
1080.1	1153.1	1.41	1.43	1.47	1153.1	1.43	2.09	2.89	350.0	1.18	1.22	1.29
1140.1	1213.1	1.42	1.43	1.47	1213.1	1.47	2.13	2.94	370.0	1.20	1.22	1.27
1210.1	1283.1	1.41	1.41	1.44	1283.1	1.51	2.15	2.95	390.0	1.21	1.25	1.31
1270.1	1343.1	1.43	1.41	1.43	1343.1	1.58	2.23	3.05	410.0	1.22	1.23	1.27
1340.1	1413.1	1.46	1.43	1.44	1413.1	1.64	2.28	3.10	430.0	1.27	1.30	1.36
1400.1	1473.1	1.49	1.44	1.44	1473.1	1.70	2.32	3.12	450.0	1.24	1.27	1.31
1470.1	1543.1	1.56	1.49	1.47	1543.1	1.79	2.42	3.23	470.0	1.30	1.33	1.38
1530.1	1603.1	1.58	1.50	1.47	1603.1	1.85	2.46	3.28	490.0	1.26	1.28	1.33
1600.1	1673.1	1.56	1.48	1.44	1673.1	1.92	2.50	3.29	510.0	1.34	1.35	1.39
1660.1	1733.1	1.55	1.46	1.42	1733.1	2.03	2.63	3.46	530.0	1.31	1.34	1.38
1730.1	1803.1	1.56	1.46	1.40	1803.1	2.08	2.66	3.48	550.0	1.37	1.38	1.42
1790.1	1863.1	1.55	1.44	1.37	1863.1	2.15	2.67	3.42	590.0	1.38	1.38	1.41
1860.1	1933.1	1.61	1.49	1.43	1933.1	2.27	2.78	3.56	610.0	1.40	1.42	1.47
1920.1	1993.1	1.72	1.59	1.51	1993.1	2.34	2.85	3.63	650.0	1.41	1.43	1.48
1990.1	2063.1	1.87	1.75	1.66	2063.1	2.37	2.84	3.55	670.0	1.40	1.41	1.44
2050.1	2123.1	2.05	1.93	1.84	2123.1	2.49	2.99	3.76	710.0	1.44	1.45	1.48
2120.1	2193.1	2.20	2.06	1.97	2193.1	2.53	3.00	3.79	730.0	1.50	1.52	1.55
2180.1	2253.1	2.34	2.20	2.09	2253.1	2.54	2.93	3.59	770.0	1.51	1.52	1.55
2250.1	2323.1	2.47	2.33	2.21	2323.1	2.64	3.04	3.73	790.0	1.48	1.50	1.53
2310.1	2383.1	2.48	2.33	2.22	2383.1	2.67	3.04	3.75	830.0	1.52	1.53	1.57
2380.1	2453.1	2.57	2.42	2.31	2453.1	2.72	3.00	3.60	850.0	1.54	1.55	1.57
2440.1	2513.1	2.63	2.50	2.38	2513.1	2.77	3.07	3.70	890.0	1.55	1.55	1.56
2510.1	2583.1	2.63	2.49	2.39	2583.1	2.78	3.05	3.66	910.0	1.59	1.60	1.64

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	10	35	24	32	32	43	36	33	53
1	-	27	+0	38	11	30	28	31	33	37	55	47
2	62	59	56	53	51	59	54	72	54	63	65	69
3	>90	67	70	68	77	69	74	68	57	62	67	68
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 900.1 MHz; 0.00 dBm.
LO IN: 973.1 MHz; +17.00 dBm
IF OUT: 73 MHz; -7.6 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	21	44	37	52	52	57	56	52	57
1	-	27	+0	39	12	34	29	39	41	48	59	67
2	42	45	45	42	41	46	53	47	48	50	67	56
3	65	58	43	55	40	51	38	44	47	45	54	51
4	>90	63	61	69	60	64	59	57	58	67	58	70
5	>90	63	60	63	63	61	62	60	62	62	56	57
6	>90	76	70	75	77	77	77	83	69	88	66	65
7	>90	87	74	73	65	77	68	84	69	82	66	69
8	>90	88	>92	83	80	88	83	>92	79	>92	78	83
9	>90	>92	92	>92	81	87	79	85	79	80	78	76
10	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	91	91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 900.1 MHz; 10.00 dBm.
LO IN: 973.1 MHz; +17.00 dBm
IF OUT: 73 MHz; 2.29 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.