

# Frequency Mixer

# ADE-30+

## 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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
150.1	180.1	16.76	10.86	7.91	150.1	180.1	-1.85	5.08	15.03	150.1	180.1	-3.69	-0.61	0.20
250.8	280.8	7.18	6.17	5.77	250.8	280.8	11.41	14.93	18.04	250.6	280.6	1.67	1.08	0.73
351.6	381.6	5.85	5.46	5.20	351.6	381.6	13.74	17.81	18.64	351.1	381.1	1.74	1.30	1.05
452.3	482.3	5.50	5.15	4.94	452.3	482.3	16.47	15.01	14.53	451.6	481.6	1.82	1.46	1.23
553.1	583.1	5.44	5.15	4.92	553.1	583.1	15.33	16.55	14.08	552.1	582.1	1.91	1.62	1.37
653.8	683.8	5.33	5.05	4.88	653.8	683.8	19.39	15.86	15.18	652.6	682.6	2.25	1.83	1.57
754.6	784.6	5.53	5.05	4.83	754.6	784.6	11.87	18.00	20.23	753.1	783.1	2.36	1.98	1.70
855.3	885.3	6.16	5.47	5.07	855.3	885.3	8.53	12.58	13.00	853.6	883.6	2.24	2.05	1.81
956.1	986.1	6.87	6.00	5.43	956.1	986.1	5.23	6.93	8.26	954.1	984.1	1.75	1.77	1.66
1056.8	1086.8	6.60	6.04	5.65	1056.8	1086.8	6.77	8.59	10.43	1054.6	1084.6	1.89	1.71	1.52
1157.5	1187.5	6.84	6.37	6.09	1157.5	1187.5	7.17	8.36	9.92	1155.1	1185.1	1.36	1.25	1.13
1258.3	1288.3	6.63	6.41	6.29	1258.3	1288.3	9.48	9.51	10.13	1255.6	1285.6	1.12	0.88	0.74
1359.0	1389.0	6.33	6.09	6.04	1359.0	1389.0	12.62	12.06	12.02	1356.1	1386.1	0.89	0.69	0.58
1459.8	1489.8	6.32	6.01	5.86	1459.8	1489.8	17.26	18.07	18.14	1456.6	1486.6	0.76	0.53	0.40
1560.5	1590.5	7.21	6.80	6.57	1560.5	1590.5	14.92	16.36	16.45	1557.1	1587.1	0.80	0.59	0.44
1661.3	1691.3	7.06	6.70	6.55	1661.3	1691.3	13.63	16.35	20.39	1657.6	1687.6	0.86	0.57	0.45
1762.0	1792.0	7.31	6.90	6.67	1762.0	1792.0	10.51	12.89	16.05	1758.1	1788.1	0.84	0.59	0.51
1862.7	1892.7	7.70	7.17	6.92	1862.7	1892.7	11.16	12.04	13.44	1858.6	1888.6	0.77	0.59	0.54
1963.5	1993.5	7.91	7.24	6.97	1963.5	1993.5	10.90	11.33	11.58	1959.1	1989.1	0.70	0.62	0.54
2064.2	2094.2	8.22	7.46	7.13	2064.2	2094.2	12.75	13.30	13.97	2059.6	2089.6	0.56	0.47	0.42
2165.0	2195.0	8.56	7.76	7.32	2165.0	2195.0	11.24	11.54	12.51	2160.1	2190.1	0.44	0.34	0.30
2265.7	2295.7	8.65	7.90	7.45	2265.7	2295.7	10.56	10.84	11.27	2260.5	2290.5	0.46	0.28	0.23
2366.5	2396.5	8.60	7.78	7.34	2366.5	2396.5	9.32	11.05	11.10	2361.0	2391.0	0.63	0.35	0.27
2467.2	2497.2	8.75	7.75	7.32	2467.2	2497.2	8.32	10.59	11.34	2461.5	2491.5	0.62	0.39	0.28
2568.0	2598.0	9.07	7.80	7.34	2568.0	2598.0	8.27	10.64	11.47	2562.0	2592.0	0.60	0.43	0.34
2668.7	2698.7	9.40	7.66	7.19	2668.7	2698.7	8.05	11.14	12.51	2662.5	2692.5	0.49	0.47	0.36
2769.4	2799.4	9.51	7.42	6.90	2769.4	2799.4	7.83	10.66	12.55	2763.0	2793.0	0.43	0.59	0.42
2870.2	2900.2	9.66	7.55	6.86	2870.2	2900.2	6.23	10.53	13.26	2863.5	2893.5	0.51	0.67	0.56
2991.1	3021.1	9.22	7.27	6.67	2991.1	3021.1	5.67	8.45	10.55	2984.1	3014.1	0.55	0.76	0.67
3091.8	3121.8	7.93	6.75	6.34	3091.8	3121.8	11.18	8.84	10.12	3084.6	3114.6	0.95	0.70	0.58
3212.7	3242.7	7.37	6.42	6.09	3212.7	3242.7	8.83	8.18	10.16	3205.2	3235.2	0.93	0.66	0.62
3313.5	3343.5	7.17	6.26	6.00	3313.5	3343.5	7.07	8.28	10.28	3305.7	3335.7	1.02	0.69	0.66
3434.3	3464.3	6.73	5.94	5.71	3434.3	3464.3	7.82	9.26	11.14	3426.3	3456.3	1.14	0.80	0.75
3535.1	3565.1	6.42	5.77	5.51	3535.1	3565.1	8.87	10.14	11.29	3526.8	3556.8	1.34	0.99	0.89
3656.0	3686.0	6.19	5.60	5.42	3656.0	3686.0	10.19	11.26	12.26	3647.4	3677.4	1.62	1.16	0.97
3756.7	3786.7	6.18	5.62	5.40	3756.7	3786.7	10.46	11.68	13.02	3747.9	3777.9	1.84	1.21	0.96
3877.6	3907.6	6.44	5.83	5.56	3877.6	3907.6	9.32	11.74	13.30	3868.5	3898.5	2.15	1.26	0.90
3978.4	4008.4	6.73	6.18	5.86	3978.4	4008.4	7.83	11.30	13.78	3969.0	3999.0	2.63	1.48	0.91
4099.3	4129.3	7.60	6.78	6.32	4099.3	4129.3	6.74	10.01	13.24	4089.6	4119.6	3.15	1.94	1.11
4200.0	4230.0	8.49	7.35	6.83	4200.0	4230.0	6.60	8.96	11.60	4190.1	4220.1	3.07	2.06	1.32



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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=200.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
1000.0	500.1	8.22	10.0	210.1	7.08	1000.0	2000.1	7.97
979.8	520.3	8.36	30.2	230.3	6.88	979.8	2020.3	7.95
959.6	540.5	8.31	50.4	250.5	6.92	959.6	2040.5	7.92
939.4	560.7	8.44	70.6	270.7	6.93	939.4	2060.7	7.84
919.2	580.9	8.36	90.8	290.9	6.91	919.2	2080.9	7.79
899.0	601.1	8.18	111.0	311.1	6.79	899.0	2101.1	7.76
878.8	621.3	8.10	131.2	331.3	6.79	878.8	2121.3	7.76
858.6	641.5	7.91	151.4	351.5	6.82	858.6	2141.5	7.79
838.4	661.7	7.76	171.6	371.7	6.82	838.4	2161.7	7.70
818.2	681.9	7.53	191.8	391.9	6.80	818.2	2181.9	7.66
798.0	702.1	7.26	212.0	412.1	6.74	798.0	2202.1	7.63
777.8	722.3	6.98	232.2	432.3	6.78	777.8	2222.3	7.67
757.6	742.5	6.77	252.4	452.5	6.76	757.6	2242.5	7.68
737.3	762.8	6.59	272.7	472.8	6.80	737.3	2262.8	7.61
717.1	783.0	6.54	292.9	493.0	6.75	717.1	2283.0	7.60
696.9	803.2	6.59	313.1	513.2	6.67	696.9	2303.2	7.54
676.7	823.4	6.69	333.3	533.4	6.75	676.7	2323.4	7.58
656.5	843.6	6.81	353.5	553.6	6.75	656.5	2343.6	7.58
636.3	863.8	6.92	373.7	573.8	6.76	636.3	2363.8	7.51
616.1	884.0	7.08	393.9	594.0	6.69	616.1	2384.0	7.49
575.7	924.4	7.24	434.3	634.4	6.66	575.7	2424.4	7.53
555.5	944.6	7.35	454.5	654.6	6.53	555.5	2444.6	7.48
515.1	985.0	7.32	494.9	695.0	6.45	515.1	2485.0	7.39
494.9	1005.2	7.25	515.1	715.2	6.43	494.9	2505.2	7.40
454.5	1045.6	7.17	555.5	755.6	6.39	454.5	2545.6	7.38
434.3	1065.8	7.11	575.7	775.8	6.43	434.3	2565.8	7.31
393.9	1106.2	6.97	616.1	816.2	6.40	393.9	2606.2	7.31
373.7	1126.4	6.87	636.3	836.4	6.43	373.7	2626.4	7.32
333.3	1166.8	6.63	676.7	876.8	6.48	333.3	2666.8	7.24
313.1	1187.0	6.53	696.9	897.0	6.52	313.1	2687.0	7.23
272.7	1227.4	6.26	737.3	937.4	6.69	272.7	2727.4	7.34
252.4	1247.7	6.17	757.6	957.7	6.75	252.4	2747.7	7.30
212.0	1288.1	5.99	798.0	998.1	6.81	212.0	2788.1	7.32
191.8	1308.3	5.93	818.2	1018.3	6.87	191.8	2808.3	7.40
151.4	1348.7	5.95	858.6	1058.7	6.84	151.4	2848.7	7.36
131.2	1368.9	5.97	878.8	1078.9	6.85	131.2	2868.9	7.32
90.8	1409.3	6.06	919.2	1119.3	6.76	90.8	2909.3	7.39
70.6	1429.5	6.12	939.4	1139.5	6.78	70.6	2929.5	7.33
30.2	1469.9	6.23	979.8	1179.9	6.79	30.2	2969.9	7.19
10.0	1490.1	6.28	1000.0	1200.1	6.82	10.0	2990.1	7.23

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## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
150.1	64.95	62.94	58.36	69.23	70.00	68.23
250.6	47.26	47.71	48.49	63.48	55.62	49.32
351.1	42.41	43.92	45.38	48.18	44.03	43.51
451.6	39.75	41.56	43.27	39.82	40.18	41.86
552.1	38.63	40.27	41.68	37.36	38.86	40.63
652.6	37.67	39.51	40.99	36.59	38.38	40.46
753.1	36.38	37.87	39.13	35.85	37.31	38.86
853.6	36.57	38.25	39.62	35.57	37.61	39.25
954.1	36.36	37.97	39.43	36.91	41.62	44.36
1054.6	37.37	38.64	39.68	32.16	34.35	37.22
1155.1	39.18	40.63	41.45	29.53	29.77	30.50
1255.6	38.51	40.80	42.64	28.47	28.66	29.11
1356.1	36.59	38.92	41.10	27.30	27.42	27.84
1456.6	36.72	38.84	40.99	25.20	25.65	26.25
1557.1	35.65	38.00	40.48	23.06	24.14	25.18
1657.6	35.10	37.71	40.18	21.22	22.59	24.02
1758.1	33.39	35.79	37.91	20.16	21.42	22.61
1858.6	32.15	34.38	36.39	19.41	20.72	21.94
1959.1	31.23	33.62	35.94	18.81	20.18	21.30
2059.6	31.06	33.55	36.16	18.19	19.35	20.52
2160.1	31.26	33.80	36.49	18.06	18.92	19.86
2260.5	31.52	34.28	37.16	17.90	18.47	19.25
2361.0	31.49	34.45	37.52	17.73	17.98	18.75
2461.5	31.59	34.49	37.39	17.42	17.49	18.05
2562.0	32.04	34.93	37.36	16.87	17.02	17.43
2662.5	32.33	35.05	36.78	16.30	16.43	16.65
2763.0	32.62	36.08	38.83	15.48	15.63	15.82
2863.5	33.21	36.87	45.19	14.77	14.92	15.14
2984.1	33.04	37.21	49.51	14.15	14.29	14.62
3084.6	36.94	41.66	40.83	14.74	14.70	14.84
3205.2	36.28	36.65	35.78	15.06	14.77	14.78
3305.7	35.98	36.15	35.46	13.91	14.06	14.43
3426.3	37.12	37.17	36.80	13.08	13.48	14.34
3526.8	39.52	39.58	39.28	12.90	13.61	14.76
3647.4	44.20	46.75	46.30	13.59	14.62	15.87
3747.9	40.32	45.37	51.45	15.15	16.25	17.31
3868.5	35.76	38.85	42.87	18.70	19.05	19.46
3969.0	33.61	35.94	38.93	23.15	22.30	21.61
4089.6	32.57	34.34	36.42	28.70	26.61	24.35
4190.1	33.53	35.21	36.68	29.43	28.47	26.60

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
150.1	180.1	33.57	31.13	28.61
250.1	280.1	26.32	25.49	25.26
350.1	380.1	24.35	24.05	23.83
450.1	480.1	24.16	23.84	23.64
550.1	580.1	25.55	25.35	25.32
650.1	680.1	27.45	27.22	26.97
750.1	780.1	30.03	29.31	28.87
850.1	880.1	32.59	31.56	30.75
950.1	980.1	30.97	30.45	30.00
1050.1	1080.1	28.64	28.47	28.40
1150.1	1180.1	28.37	28.32	28.21
1250.1	1280.1	29.88	29.66	29.49
1350.1	1380.1	33.50	33.69	33.35
1450.1	1480.1	39.15	43.22	47.80
1550.1	1580.1	33.20	34.13	35.21
1650.1	1680.1	37.18	38.73	40.05
1750.1	1780.1	39.35	40.35	41.19
1850.1	1880.1	47.07	46.73	46.14
1950.1	1980.1	38.90	38.10	37.39
2050.1	2080.1	31.48	31.23	31.26
2150.1	2180.1	27.88	28.03	28.00
2250.0	2280.0	25.99	26.10	26.11
2350.0	2380.0	24.76	24.85	24.92
2450.0	2480.0	23.95	23.92	24.02
2550.0	2580.0	23.35	23.33	23.47
2650.0	2680.0	23.31	23.11	23.25
2750.0	2780.0	23.43	23.67	23.57
2850.0	2880.0	24.03	24.51	24.70
2970.0	3000.0	26.42	27.87	29.20
3070.0	3100.0	36.26	40.87	38.96
3190.0	3220.0	31.36	30.05	28.91
3290.0	3320.0	26.97	26.61	26.08
3410.0	3440.0	24.14	24.27	24.23
3510.0	3540.0	23.11	23.28	23.43
3630.0	3660.0	22.53	22.87	23.19
3730.0	3760.0	22.08	22.53	22.89
3850.0	3880.0	21.43	21.73	21.84
3950.0	3980.0	20.77	20.70	20.59
4070.0	4100.0	20.03	19.52	19.19
4170.0	4200.0	19.20	18.68	18.31

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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
150.1	180.1	14.03	8.08	5.68
250.1	280.1	3.15	2.76	2.61
350.1	380.1	1.90	1.81	1.76
450.1	480.1	1.45	1.38	1.33
550.1	580.1	1.31	1.23	1.15
650.1	680.1	1.37	1.29	1.23
750.1	780.1	1.70	1.59	1.51
850.1	880.1	2.46	2.26	2.10
950.1	980.1	3.45	3.13	2.87
1050.1	1080.1	3.77	3.56	3.37
1150.1	1180.1	4.02	3.83	3.70
1250.1	1280.1	3.81	3.76	3.76
1350.1	1380.1	3.42	3.38	3.36
1450.1	1480.1	3.14	2.94	2.82
1550.1	1580.1	3.76	3.54	3.40
1650.1	1680.1	3.69	3.49	3.36
1750.1	1780.1	3.83	3.60	3.42
1850.1	1880.1	4.18	3.93	3.73
1950.1	1980.1	4.54	4.21	4.02
2050.1	2080.1	4.73	4.37	4.11
2150.1	2180.1	4.79	4.52	4.24
2250.0	2280.0	4.92	4.64	4.37
2350.0	2380.0	4.91	4.62	4.33
2450.0	2480.0	4.83	4.45	4.17
2550.0	2580.0	4.82	4.30	4.01
2650.0	2680.0	4.87	4.08	3.76
2750.0	2780.0	4.95	3.90	3.52
2850.0	2880.0	4.82	3.83	3.28
2970.0	3000.0	4.27	3.52	3.16
3070.0	3100.0	3.71	3.21	2.97
3190.0	3220.0	3.38	2.86	2.56
3290.0	3320.0	2.99	2.48	2.17
3410.0	3440.0	2.42	2.04	1.80
3510.0	3540.0	2.00	1.72	1.54
3630.0	3660.0	1.57	1.36	1.24
3730.0	3760.0	1.30	1.14	1.10
3850.0	3880.0	1.07	1.15	1.26
3950.0	3980.0	1.08	1.29	1.48
4070.0	4100.0	1.23	1.44	1.71
4170.0	4200.0	1.46	1.59	1.86

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
150.1	59.91	49.64	28.49
250.6	14.74	9.53	8.99
351.1	5.04	5.47	6.66
451.6	3.38	4.36	5.68
552.1	2.79	3.79	5.04
652.6	2.47	3.38	4.48
753.1	2.29	3.06	4.00
853.6	2.16	2.80	3.58
954.1	1.93	2.46	3.14
1054.6	1.69	2.15	2.75
1155.1	1.55	1.98	2.54
1255.6	1.49	1.93	2.48
1356.1	1.55	2.00	2.56
1456.6	1.67	2.13	2.71
1557.1	1.80	2.30	2.90
1657.6	1.88	2.38	3.01
1758.1	2.20	2.63	3.21
1858.6	2.48	2.84	3.38
1959.1	2.73	3.02	3.50
2059.6	3.00	3.18	3.58
2160.1	3.23	3.31	3.62
2260.5	3.44	3.36	3.60
2361.0	3.58	3.33	3.46
2461.5	3.73	3.26	3.29
2562.0	3.85	3.17	3.05
2662.5	3.82	3.10	2.83
2763.0	3.72	3.10	2.74
2863.5	3.38	2.88	2.54
2984.1	2.84	2.45	2.16
3084.6	2.59	2.12	1.80
3205.2	2.34	1.82	1.44
3305.7	2.11	1.60	1.26
3426.3	1.78	1.46	1.37
3526.8	1.54	1.52	1.71
3647.4	1.54	1.85	2.24
3747.9	1.85	2.28	2.77
3868.5	2.57	2.97	3.49
3969.0	3.33	3.70	4.14
4089.6	4.33	4.60	4.92
4190.1	5.14	5.25	5.46

IF (OUT) (MHz)	IF VSWR @LO=3000.1001MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.0	1.16	1.41	1.85
30.2	1.19	1.38	1.81
50.4	1.20	1.36	1.75
70.6	1.26	1.29	1.65
90.8	1.25	1.33	1.70
111.0	1.27	1.35	1.73
131.2	1.28	1.34	1.70
151.4	1.26	1.36	1.72
171.6	1.26	1.39	1.76
191.8	1.27	1.35	1.71
212.0	1.31	1.31	1.66
232.2	1.32	1.35	1.70
252.4	1.34	1.38	1.73
272.7	1.33	1.39	1.73
292.9	1.33	1.41	1.77
313.1	1.35	1.44	1.81
333.3	1.36	1.45	1.80
353.5	1.34	1.46	1.82
373.7	1.34	1.49	1.86
393.9	1.36	1.47	1.82
434.3	1.39	1.50	1.83
454.5	1.37	1.53	1.87
494.9	1.36	1.42	1.74
515.1	1.41	1.46	1.76
555.5	1.39	1.46	1.74
575.7	1.38	1.44	1.73
616.1	1.45	1.42	1.63
636.3	1.42	1.46	1.69
676.7	1.41	1.40	1.60
696.9	1.46	1.40	1.58
737.3	1.50	1.50	1.67
757.6	1.47	1.43	1.61
798.0	1.55	1.46	1.59
818.2	1.56	1.46	1.57
858.6	1.56	1.47	1.58
878.8	1.61	1.46	1.53
919.2	1.65	1.52	1.59
939.4	1.61	1.50	1.57
979.8	1.62	1.42	1.45
1000.0	1.66	1.48	1.51

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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+18	17	+2	42	11	38	25	44	39	45
1	-	22	+0	30	22	34	42	39	39	46	42	72
2	98	66	41	51	41	61	49	61	52	66	54	58
3	122	78	66	64	69	71	75	68	69	71	71	74
4	114	86	82	111	80	86	79	92	86	86	88	90
5	111	107	112	96	102	98	92	108	101	95	94	97
6	113	101	98	119	101	100	103	91	100	101	98	98
7	108	105	123	95	100	101	104	102	93	102	109	105
8	106	103	103	102	95	104	96	98	106	95	101	104
9	116	99	112	98	102	93	100	110	106	98	87	103
10	107	94	96	100	102	98	106	100	98	103	98	93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1600.1 MHz; -14.00 dBm.  
 LO IN: 1630.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -21.33 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+9	27	8	59	22	48	42	63	45	64
1	-	22	+0	31	22	36	44	42	44	54	50	69
2	78	58	33	42	33	52	41	65	45	60	50	58
3	117	61	45	48	44	56	56	53	57	57	56	62
4	111	67	59	73	55	61	54	67	61	66	62	72
5	111	84	75	83	73	65	64	72	71	69	67	70
6	113	87	82	84	75	91	74	83	71	80	81	75
7	112	97	94	91	89	91	84	80	79	85	86	83
8	112	95	102	107	94	98	87	107	87	92	85	92
9	108	113	102	112	116	103	105	99	102	92	98	100
10	107	113	108	101	114	113	101	108	97	111	97	99
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1600.1 MHz; -4.00 dBm.  
 LO IN: 1630.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -11.48 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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