

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=240MHz (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)		
		+13	+16	+19			+13	+16	+19			+13	+16	+19
350.10	110.10	12.77	10.84	9.07	350.10	110.10	11.12	13.33	17.99	350.10	110.10	3.34	2.87	2.92
420.10	180.10	6.83	6.42	6.17	420.10	180.10	22.42	24.53	27.29	420.10	180.10	1.28	0.61	1.40
490.10	250.10	7.98	6.94	6.35	490.10	250.10	14.21	16.70	18.41	490.10	250.10	6.28	4.46	2.25
560.10	320.10	10.30	8.50	7.52	560.10	320.10	20.43	17.91	20.06	560.10	320.10	0.86	1.13	1.16
630.10	390.10	10.73	8.83	7.79	630.10	390.10	20.40	20.23	21.53	630.10	390.10	0.75	0.95	0.92
700.10	460.10	10.73	8.92	7.97	700.10	460.10	20.24	18.99	19.37	700.10	460.10	1.33	1.25	0.83
770.10	530.10	11.84	9.54	8.31	770.10	530.10	13.88	16.33	20.88	770.10	530.10	0.07	0.66	0.87
840.10	600.10	11.89	9.44	8.00	840.10	600.10	14.58	22.81	20.71	840.10	600.10	0.11	0.78	0.87
910.10	670.10	11.29	9.07	7.82	910.10	670.10	15.76	21.68	22.88	910.10	670.10	0.68	1.08	0.71
980.10	740.10	11.19	8.90	7.69	980.10	740.10	17.36	20.55	23.40	980.10	740.10	1.10	1.46	0.67
1050.10	810.10	11.38	9.08	7.83	1050.10	810.10	16.27	19.86	23.00	1050.10	810.10	0.45	1.16	0.54
1120.10	880.10	10.93	8.89	7.77	1120.10	880.10	16.62	19.04	22.05	1120.10	880.10	0.34	0.96	0.38
1190.10	950.10	10.45	8.66	7.71	1190.10	950.10	16.53	18.60	21.61	1190.10	950.10	0.39	0.88	0.19
1260.10	1020.10	10.12	8.53	7.64	1260.10	1020.10	16.20	18.14	21.49	1260.10	1020.10	0.32	0.73	-0.06
1330.10	1090.10	9.57	8.25	7.50	1330.10	1090.10	17.13	19.28	22.05	1330.10	1090.10	0.43	0.59	0.09
1400.10	1160.10	9.12	8.02	7.38	1400.10	1160.10	19.57	21.23	23.42	1400.10	1160.10	0.69	0.48	0.18
1470.10	1230.10	8.80	7.85	7.28	1470.10	1230.10	21.98	22.49	24.17	1470.10	1230.10	0.76	0.44	0.24
1540.10	1300.10	8.35	7.57	7.09	1540.10	1300.10	23.50	23.24	24.63	1540.10	1300.10	0.78	0.43	0.28
1610.10	1370.10	7.97	7.35	6.96	1610.10	1370.10	23.56	24.02	27.16	1610.10	1370.10	0.81	0.54	0.34
1680.10	1440.10	7.77	7.30	7.02	1680.10	1440.10	23.12	25.72	30.48	1680.10	1440.10	0.86	0.51	0.28
1750.10	1510.10	7.59	7.25	7.08	1750.10	1510.10	23.61	27.13	31.99	1750.10	1510.10	0.76	0.37	0.21
1820.10	1580.10	7.45	7.24	7.18	1820.10	1580.10	25.00	28.86	32.56	1820.10	1580.10	0.55	0.26	0.16
1890.10	1650.10	7.38	7.25	7.25	1890.10	1650.10	25.51	30.37	33.21	1890.10	1650.10	0.39	0.20	0.14
1960.10	1720.10	7.36	7.26	7.28	1960.10	1720.10	25.32	31.06	34.09	1960.10	1720.10	0.33	0.18	0.15
2030.10	1790.10	7.35	7.27	7.29	2030.10	1790.10	25.07	30.58	34.65	2030.10	1790.10	0.31	0.16	0.16
2100.10	1860.10	7.38	7.32	7.36	2100.10	1860.10	24.92	29.55	33.58	2100.10	1860.10	0.32	0.15	0.16
2160.10	1920.10	7.42	7.38	7.45	2160.10	1920.10	24.68	29.16	33.16	2160.10	1920.10	0.34	0.14	0.15
2230.10	1990.10	7.48	7.41	7.47	2230.10	1990.10	24.06	28.13	33.17	2230.10	1990.10	0.38	0.16	0.15
2290.10	2050.10	7.59	7.46	7.47	2290.10	2050.10	23.32	26.76	32.15	2290.10	2050.10	0.43	0.19	0.16
2360.10	2120.10	7.79	7.62	7.61	2360.10	2120.10	22.32	25.26	29.86	2360.10	2120.10	0.52	0.21	0.17
2420.10	2180.10	7.89	7.68	7.64	2420.10	2180.10	22.08	24.82	29.01	2420.10	2180.10	0.52	0.23	0.19
2490.10	2250.10	8.14	7.83	7.71	2490.10	2250.10	21.57	24.23	28.37	2490.10	2250.10	0.54	0.29	0.21
2550.10	2310.10	8.54	8.15	7.95	2550.10	2310.10	21.05	23.24	26.67	2550.10	2310.10	0.51	0.33	0.24
2620.10	2380.10	8.72	8.28	8.03	2620.10	2380.10	20.79	22.80	25.89	2620.10	2380.10	0.47	0.34	0.27
2680.10	2440.10	8.92	8.36	8.08	2680.10	2440.10	20.50	22.67	25.65	2680.10	2440.10	0.43	0.35	0.29
2750.10	2510.10	9.35	8.66	8.31	2750.10	2510.10	19.84	21.84	24.64	2750.10	2510.10	0.38	0.38	0.31
2810.10	2570.10	9.58	8.86	8.47	2810.10	2570.10	19.51	21.42	24.22	2810.10	2570.10	0.39	0.39	0.32
2880.10	2640.10	9.93	9.12	8.66	2880.10	2640.10	18.89	21.04	23.96	2880.10	2640.10	0.30	0.38	0.32
2940.10	2700.10	10.55	9.64	9.05	2940.10	2700.10	18.58	20.78	24.03	2940.10	2700.10	0.23	0.36	0.30
3010.10	2770.10	11.19	10.15	9.47	3010.10	2770.10	18.29	20.48	23.60	3010.10	2770.10	0.25	0.36	0.26

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1950.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1920.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1980.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+16			+16			+16
1030.00	920.10	10.69	10.00	1930.10	7.60	1050.00	930.10	10.72
967.55	982.55	9.66	30.00	1950.10	7.28	1030.00	950.10	10.28
905.10	1045.00	10.11	50.00	1970.10	7.20	1010.00	970.10	9.85
842.65	1107.45	9.68	70.00	1990.10	7.17	990.00	990.10	9.31
801.02	1149.08	9.39	90.00	2010.10	7.21	970.00	1010.10	9.95
738.57	1211.53	8.90	110.00	2030.10	7.20	950.00	1030.10	10.22
696.94	1253.16	8.67	130.00	2050.10	7.20	930.00	1050.10	10.18
634.49	1315.61	8.15	150.00	2070.10	7.20	910.00	1070.10	9.97
592.86	1357.24	7.95	170.00	2090.10	7.24	890.00	1090.10	9.81
530.41	1419.69	7.75	190.00	2110.10	7.31	870.00	1110.10	9.69
488.78	1461.32	7.52	210.00	2130.10	7.34	850.00	1130.10	9.60
426.33	1523.77	7.37	230.00	2150.10	7.39	830.00	1150.10	9.42
384.69	1565.41	7.30	250.00	2170.10	7.40	810.00	1170.10	9.18
322.24	1627.86	7.24	270.00	2190.10	7.49	790.00	1190.10	9.03
280.61	1669.49	7.26	290.00	2210.10	7.58	750.00	1230.10	8.86
218.16	1731.94	7.28	310.00	2230.10	7.64	730.00	1250.10	8.63
176.53	1773.57	7.25	330.00	2250.10	7.67	690.00	1290.10	8.33
114.08	1836.02	7.22	350.00	2270.10	7.72	670.00	1310.10	8.26
72.45	1877.65	7.17	390.00	2310.10	7.90	630.00	1350.10	8.03
10.00	1940.10	7.51	410.00	2330.10	7.94	610.00	1370.10	7.90
29.18	1979.28	7.26	450.00	2370.10	8.05	570.00	1410.10	7.78
86.73	2036.83	7.24	470.00	2390.10	8.13	550.00	1430.10	7.71
125.10	2075.20	7.19	510.00	2430.10	8.20	510.00	1470.10	7.50
182.65	2132.75	7.34	530.00	2450.10	8.22	490.00	1490.10	7.39
221.02	2171.12	7.39	570.00	2490.10	8.37	450.00	1530.10	7.38
278.57	2228.67	7.58	590.00	2510.10	8.44	430.00	1550.10	7.33
316.94	2267.04	7.68	630.00	2550.10	8.43	390.00	1590.10	7.28
374.49	2324.59	7.87	650.00	2570.10	8.59	370.00	1610.10	7.25
412.86	2362.96	7.92	690.00	2610.10	8.74	330.00	1650.10	7.26
470.41	2420.51	8.13	710.00	2630.10	8.74	310.00	1670.10	7.26
508.78	2458.88	8.20	750.00	2670.10	8.96	270.00	1710.10	7.23
566.33	2516.43	8.41	770.00	2690.10	9.09	250.00	1730.10	7.26
604.69	2554.79	8.47	810.00	2730.10	9.25	210.00	1770.10	7.26
662.24	2612.34	8.71	830.00	2750.10	9.39	190.00	1790.10	7.24
700.61	2650.71	8.81	870.00	2790.10	9.76	150.00	1830.10	7.20
758.16	2708.26	9.13	890.00	2810.10	9.82	130.00	1850.10	7.20
796.53	2746.63	9.30	930.00	2850.10	10.17	90.00	1890.10	7.17
854.08	2804.18	9.76	950.00	2870.10	10.40	70.00	1910.10	7.15
892.45	2842.55	10.06	990.00	2910.10	10.78	30.00	1950.10	7.17
950.00	2900.10	10.56	1010.00	2930.10	10.99	10.00	1970.10	7.45

Frequency Mixer

HJK-ED9088

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+13	+16	+19	+13	+16	+19			+13	+16	+19
110.10	74.95	75.12	49.84	67.78	68.60	34.09	350.10	110.10	50.99	46.86	53.32
180.10	64.42	63.57	48.08	53.39	53.19	31.40	420.10	180.10	43.15	41.47	44.64
250.10	68.55	67.70	45.68	55.04	54.32	31.19	490.10	250.10	39.96	40.92	43.83
320.10	66.72	65.40	44.53	54.33	52.89	31.85	560.10	320.10	37.51	39.42	48.68
390.10	62.37	61.38	43.74	52.15	50.64	32.81	630.10	390.10	37.47	37.48	40.20
460.10	58.49	56.45	42.66	49.91	48.56	33.50	700.10	460.10	36.80	36.09	36.31
530.10	58.93	59.11	42.97	49.63	49.25	33.93	770.10	530.10	36.03	36.35	36.98
600.10	57.02	57.11	42.07	45.81	44.94	33.97	840.10	600.10	35.73	36.23	36.93
670.10	55.49	55.90	42.10	43.13	42.50	34.09	910.10	670.10	35.55	37.90	36.30
740.10	53.74	54.50	42.27	40.98	40.54	33.98	980.10	740.10	35.83	38.17	34.11
810.10	52.62	53.46	42.18	39.05	38.77	33.33	1050.10	810.10	35.51	36.23	31.75
880.10	51.83	52.96	43.72	37.26	37.15	32.90	1120.10	880.10	33.73	34.96	27.68
950.10	50.59	51.87	46.55	35.70	35.59	33.60	1190.10	950.10	32.05	33.42	22.15
1020.10	47.94	49.61	44.43	34.61	34.52	35.43	1260.10	1020.10	29.87	31.51	19.80
1090.10	48.11	49.95	44.01	33.45	33.37	36.73	1330.10	1090.10	31.34	32.76	22.02
1160.10	48.66	50.60	40.96	32.29	32.28	35.61	1400.10	1160.10	32.63	33.58	25.48
1230.10	49.67	51.79	39.85	31.17	31.20	33.65	1470.10	1230.10	33.90	34.67	28.45
1300.10	51.61	54.53	40.59	30.31	30.37	32.11	1540.10	1300.10	35.12	35.81	31.53
1370.10	59.73	61.59	44.47	29.24	29.12	30.50	1610.10	1370.10	36.76	37.23	35.10
1440.10	56.62	52.27	43.42	28.74	28.63	30.20	1680.10	1440.10	38.99	38.64	34.97
1510.10	53.24	49.27	42.50	28.83	28.78	30.76	1750.10	1510.10	37.33	35.98	31.63
1580.10	47.99	44.12	41.38	29.81	29.88	32.41	1820.10	1580.10	31.48	30.39	27.66
1650.10	39.29	36.97	37.40	31.10	31.03	33.67	1890.10	1650.10	28.66	27.91	26.14
1720.10	33.63	32.01	32.88	31.38	30.54	30.67	1960.10	1720.10	28.12	27.49	26.29
1790.10	29.04	27.81	28.25	27.76	26.76	24.94	2030.10	1790.10	29.04	28.57	27.31
1860.10	25.65	24.79	25.15	24.29	23.56	21.07	2100.10	1860.10	30.29	30.38	28.26
1920.10	24.72	24.10	24.81	23.52	23.02	20.39	2160.10	1920.10	30.81	31.30	28.46
1990.10	25.78	25.57	26.60	24.58	24.48	21.53	2230.10	1990.10	30.98	31.40	28.44
2050.10	26.90	26.98	28.34	26.07	26.26	23.16	2290.10	2050.10	30.89	31.02	28.34
2120.10	28.21	28.39	30.16	27.44	27.50	24.74	2360.10	2120.10	30.99	30.74	28.10
2180.10	29.49	29.89	31.86	28.15	28.14	26.25	2420.10	2180.10	31.22	30.69	28.59
2250.10	30.44	31.00	32.91	28.35	28.15	27.73	2490.10	2250.10	31.35	30.54	29.33
2310.10	30.68	31.33	33.12	27.86	27.60	28.58	2550.10	2310.10	30.73	29.94	29.81
2380.10	31.26	31.73	33.04	27.08	26.59	29.33	2620.10	2380.10	29.16	28.61	29.71
2440.10	31.80	31.86	32.56	26.47	25.65	29.38	2680.10	2440.10	27.57	27.27	28.73
2510.10	32.10	31.73	31.45	25.80	24.82	28.88	2750.10	2510.10	25.68	25.65	27.10
2570.10	32.42	31.82	30.80	25.16	24.19	28.21	2810.10	2570.10	24.22	24.35	25.78
2640.10	32.84	32.01	30.43	24.94	23.97	27.82	2880.10	2640.10	22.50	22.72	24.46
2700.10	32.89	32.15	30.48	24.82	24.05	27.67	2940.10	2700.10	21.49	21.69	23.64
2770.10	33.21	32.44	31.07	25.21	24.61	28.29	3010.10	2770.10	20.65	20.84	22.61

Frequency Mixer

HJK-ED9088

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1742MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+13	+16	+19		+13	+16	+19		+13	+16	+19
350.10	110.10	2.50	2.10	1.94	110.10	86.86	86.86	82.73	10.00	1.29	1.48	1.68
420.10	180.10	1.51	1.48	1.46	180.10	20.22	20.45	39.49	50.00	1.29	1.47	1.67
490.10	250.10	1.90	1.76	1.67	250.10	48.26	49.64	34.75	90.00	1.32	1.50	1.67
560.10	320.10	2.54	2.13	1.88	320.10	59.91	64.35	36.97	130.00	1.31	1.48	1.61
630.10	390.10	2.82	2.33	2.00	390.10	59.91	64.35	36.97	170.00	1.35	1.50	1.62
700.10	460.10	3.06	2.52	2.04	460.10	54.29	59.91	35.46	210.00	1.36	1.49	1.63
770.10	530.10	3.33	2.48	2.03	530.10	46.96	52.65	32.79	250.00	1.41	1.52	1.67
840.10	600.10	3.51	2.62	2.06	600.10	42.38	49.64	31.60	290.00	1.43	1.52	1.67
910.10	670.10	3.43	2.61	2.06	670.10	38.61	46.96	31.03	330.00	1.47	1.53	1.65
980.10	740.10	3.54	2.67	2.07	740.10	31.03	36.97	26.33	380.00	1.54	1.57	1.67
1050.10	810.10	3.71	2.78	2.13	810.10	25.94	31.60	24.14	420.00	1.60	1.59	1.67
1120.10	880.10	3.63	2.76	2.18	880.10	24.14	30.49	25.19	470.00	1.66	1.62	1.68
1190.10	950.10	3.47	2.68	2.28	950.10	21.20	26.74	23.81	510.00	1.73	1.66	1.68
1260.10	1020.10	3.29	2.58	2.29	1020.10	17.57	21.73	19.32	560.00	1.82	1.74	1.73
1330.10	1090.10	3.04	2.44	2.10	1090.10	15.81	19.98	16.72	600.00	1.87	1.76	1.73
1400.10	1160.10	2.82	2.32	1.95	1160.10	13.81	17.93	13.70	650.00	1.99	1.86	1.79
1470.10	1230.10	2.61	2.18	1.83	1230.10	11.53	14.62	10.43	690.00	2.04	1.89	1.80
1540.10	1300.10	2.34	1.99	1.69	1300.10	9.48	11.77	8.12	740.00	2.09	1.94	1.82
1610.10	1370.10	2.05	1.74	1.52	1370.10	7.94	9.74	6.51	780.00	2.14	1.97	1.83
1680.10	1440.10	1.83	1.57	1.38	1440.10	6.37	7.70	4.93	830.00	2.22	2.05	1.90
1750.10	1510.10	1.60	1.39	1.23	1510.10	4.87	5.70	3.59	870.00	2.16	1.99	1.83
1820.10	1580.10	1.39	1.22	1.10	1580.10	3.58	4.03	2.58	920.00	2.32	2.14	1.97
1890.10	1650.10	1.26	1.10	1.02	1650.10	2.65	2.87	1.83	960.00	2.25	2.07	1.91
1960.10	1720.10	1.14	1.05	1.09	1720.10	2.15	2.25	1.35	1010.00	2.31	2.13	1.97
2030.10	1790.10	1.07	1.11	1.18	1790.10	2.15	2.19	1.34	1050.00	2.24	2.07	1.93
2100.10	1860.10	1.06	1.16	1.26	1860.10	2.59	2.61	1.70	1100.00	2.29	2.12	1.99
2160.10	1920.10	1.10	1.20	1.30	1920.10	3.29	3.31	2.16	1140.00	2.19	2.02	1.89
2230.10	1990.10	1.16	1.27	1.38	1990.10	4.29	4.34	2.81	1190.00	2.29	2.13	1.99
2290.10	2050.10	1.18	1.28	1.39	2050.10	4.89	4.99	3.28	1230.00	2.19	2.03	1.89
2360.10	2120.10	1.23	1.31	1.41	2120.10	5.28	5.42	3.63	1280.00	2.20	2.05	1.91
2420.10	2180.10	1.29	1.37	1.46	2180.10	5.46	5.72	3.94	1320.00	2.16	2.01	1.87
2490.10	2250.10	1.33	1.39	1.49	2250.10	5.23	5.59	4.02	1370.00	2.10	1.97	1.84
2550.10	2310.10	1.40	1.43	1.50	2310.10	4.82	5.16	3.84	1410.00	2.06	1.92	1.79
2620.10	2380.10	1.48	1.49	1.55	2380.10	4.30	4.66	3.62	1460.00	2.01	1.89	1.77
2680.10	2440.10	1.57	1.57	1.61	2440.10	3.80	4.14	3.36	1500.00	1.96	1.84	1.72
2750.10	2510.10	1.70	1.67	1.68	2510.10	3.22	3.49	2.92	1550.00	1.86	1.75	1.63
2810.10	2570.10	1.83	1.78	1.78	2570.10	2.79	3.02	2.60	1590.00	1.83	1.72	1.61
2880.10	2640.10	2.01	1.94	1.92	2640.10	2.33	2.52	2.25	1640.00	1.68	1.59	1.50
2940.10	2700.10	2.13	2.07	2.02	2700.10	2.01	2.15	1.97	1680.00	1.62	1.55	1.47
3010.10	2770.10	2.31	2.22	2.15	2770.10	1.70	1.81	1.70	1730.00	1.29	1.27	1.27

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	14	32	35	47	33	48	41	57	53
1	-	19	+0	39	16	59	29	56	48	64	54	77
2	59	46	45	50	47	56	57	64	77	61	78	66
3	>90	76	62	68	54	67	56	71	63	80	>82	>82
4	>90	>82	>82	>82	>82	82	81	80	>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: 1950 MHz; 0.00 dBm.
 LO IN: 1710 MHz; +16.00 dBm
 IF OUT: 240 MHz; -7.58 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	24	38	46	55	42	60	50	69	59
1	-	19	+0	38	17	58	31	69	49	64	58	75
2	39	36	35	40	38	46	52	55	72	55	72	62
3	66	58	43	51	35	52	40	59	47	83	64	78
4	>90	>92	75	63	72	57	58	56	67	63	73	64
5	>90	88	81	74	64	65	57	63	56	69	61	80
6	>90	85	84	86	>92	77	80	70	72	65	75	71
7	>90	>92	>92	>92	>92	85	80	79	73	71	71	78
8	>90	>92	>92	>92	>92	>92	>92	89	86	82	78	76
9	>90	>92	>92	>92	>92	>92	>92	91	>92	91	91	79
10	88	>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: 1950 MHz; 10.00 dBm.
 LO IN: 1710 MHz; +16.00 dBm
 IF OUT: 240 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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