

Frequency Mixer

ZAM-42

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
1490.0	1520.0	5.72	5.40	5.17	1490.0	1520.0	8.73	7.83	7.85	1490.0	1520.0	2.69	2.38	2.14
1530.0	1560.0	5.61	5.29	5.11	1530.0	1560.0	9.21	9.30	9.10	1530.0	1560.0	2.74	2.38	2.10
1570.0	1600.0	5.89	5.61	5.38	1570.0	1600.0	10.10	8.64	8.09	1570.0	1600.0	2.49	2.20	1.97
1610.0	1640.0	5.62	5.39	5.23	1610.0	1640.0	9.74	9.50	8.91	1610.0	1640.0	2.46	2.18	1.94
1650.0	1680.0	5.81	5.53	5.33	1650.0	1680.0	9.59	9.98	10.35	1650.0	1680.0	2.20	1.95	1.79
1690.0	1720.0	5.69	5.40	5.20	1690.0	1720.0	10.40	10.25	10.33	1690.0	1720.0	2.16	1.91	1.75
1730.0	1760.0	5.86	5.60	5.42	1730.0	1760.0	10.51	10.07	10.02	1730.0	1760.0	2.08	1.81	1.61
1770.0	1800.0	5.76	5.53	5.38	1770.0	1800.0	10.52	11.20	10.56	1770.0	1800.0	1.97	1.71	1.54
1810.0	1840.0	5.73	5.50	5.37	1810.0	1840.0	10.45	11.70	11.94	1810.0	1840.0	1.95	1.68	1.51
1850.0	1880.0	5.87	5.57	5.41	1850.0	1880.0	10.04	11.24	11.73	1850.0	1880.0	1.85	1.61	1.45
1890.0	1920.0	5.76	5.48	5.33	1890.0	1920.0	9.93	10.64	11.23	1890.0	1920.0	1.91	1.65	1.49
1930.0	1960.0	6.12	5.80	5.60	1930.0	1960.0	10.06	10.64	11.48	1930.0	1960.0	1.79	1.52	1.36
1970.0	2000.0	5.95	5.66	5.50	1970.0	2000.0	9.56	10.09	11.14	1970.0	2000.0	1.89	1.62	1.45
2010.0	2040.0	6.13	5.83	5.64	2010.0	2040.0	10.09	10.37	10.60	2010.0	2040.0	1.94	1.63	1.48
2050.0	2080.0	6.23	5.92	5.72	2050.0	2080.0	9.80	11.06	11.20	2050.0	2080.0	2.09	1.73	1.56
2090.0	2120.0	6.03	5.79	5.68	2090.0	2120.0	8.89	10.02	10.57	2090.0	2120.0	2.25	1.78	1.58
2130.0	2160.0	6.47	6.20	6.05	2130.0	2160.0	9.18	10.71	11.41	2130.0	2160.0	2.01	1.55	1.35
2170.0	2200.0	6.21	5.94	5.84	2170.0	2200.0	8.44	9.75	11.21	2170.0	2200.0	2.13	1.68	1.45
2210.0	2240.0	6.72	6.34	6.07	2210.0	2240.0	9.21	11.19	11.39	2210.0	2240.0	2.07	1.61	1.41
2250.0	2280.0	6.99	6.54	6.25	2250.0	2280.0	9.37	11.40	11.51	2250.0	2280.0	1.80	1.43	1.26
2290.0	2320.0	7.21	6.62	6.26	2290.0	2320.0	9.81	13.50	13.87	2290.0	2320.0	1.63	1.31	1.19
2330.0	2360.0	7.83	7.28	6.86	2330.0	2360.0	6.98	7.93	9.05	2330.0	2360.0	1.23	0.82	0.69
2370.0	2400.0	7.24	6.75	6.39	2370.0	2400.0	6.51	7.82	9.00	2370.0	2400.0	1.46	1.00	0.83
2410.0	2440.0	7.42	6.88	6.53	2410.0	2440.0	6.11	6.34	7.88	2410.0	2440.0	1.65	1.06	0.83
2450.0	2480.0	7.33	6.69	6.30	2450.0	2480.0	6.86	5.93	7.97	2450.0	2480.0	1.53	1.07	0.91
2490.0	2520.0	7.10	6.60	6.19	2490.0	2520.0	8.76	7.70	7.08	2490.0	2520.0	1.65	1.09	0.92
2530.0	2560.0	7.18	6.65	6.28	2530.0	2560.0	7.14	7.52	7.59	2530.0	2560.0	1.59	1.09	0.87
2570.0	2600.0	6.76	6.28	5.99	2570.0	2600.0	6.49	6.99	7.36	2570.0	2600.0	1.73	1.22	1.00
2610.0	2640.0	6.71	6.22	5.96	2610.0	2640.0	5.78	6.24	6.77	2610.0	2640.0	1.95	1.28	1.09
2770.0	2800.0	5.83	5.39	5.21	2770.0	2800.0	6.25	7.44	8.23	2770.0	2800.0	1.72	1.12	0.85
2930.0	2960.0	6.20	5.54	5.23	2930.0	2960.0	10.17	9.96	11.82	2930.0	2960.0	1.36	1.06	0.86
3090.0	3120.0	5.52	5.14	4.96	3090.0	3120.0	7.59	10.25	13.25	3090.0	3120.0	1.37	1.03	0.90
3250.0	3280.0	5.80	5.43	5.20	3250.0	3280.0	7.46	8.59	10.17	3250.0	3280.0	1.33	1.19	1.11
3410.0	3440.0	5.60	5.24	5.02	3410.0	3440.0	10.80	9.84	10.53	3410.0	3440.0	1.11	0.96	0.96
3570.0	3600.0	6.07	5.67	5.31	3570.0	3600.0	10.30	10.76	9.58	3570.0	3600.0	1.34	1.14	1.15
3730.0	3760.0	5.98	5.53	5.21	3730.0	3760.0	9.40	11.64	12.78	3730.0	3760.0	1.32	1.22	1.27
3890.0	3920.0	6.15	5.68	5.38	3890.0	3920.0	7.75	9.20	9.97	3890.0	3920.0	1.32	1.03	1.04
4050.0	4080.0	6.14	5.68	5.41	4050.0	4080.0	5.98	7.69	8.26	4050.0	4080.0	1.65	1.17	1.11
4210.0	4240.0	5.94	5.35	5.10	4210.0	4240.0	5.58	9.39	12.65	4210.0	4240.0	1.53	1.00	1.01

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2850.1001MHz (dB)	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)=4200.1001MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
1880.0	970.1	11.05	10.0	1510.1	5.42	2350.0	1850.1	10.33
1792.0	1058.1	8.67	70.0	1570.1	5.00	2290.0	1910.1	8.88
1704.0	1146.1	7.89	130.0	1630.1	5.26	2230.0	1970.1	7.69
1616.0	1234.1	7.75	190.0	1690.1	5.21	2170.0	2030.1	6.64
1528.0	1322.1	7.60	250.0	1750.1	5.11	2110.0	2090.1	5.96
1440.0	1410.1	7.53	310.0	1810.1	5.05	2050.0	2150.1	6.13
1352.0	1498.1	7.55	370.0	1870.1	5.13	1990.0	2210.1	5.83
1264.0	1586.1	7.68	430.0	1930.1	5.16	1930.0	2270.1	5.79
1176.0	1674.1	7.33	490.0	1990.1	5.41	1870.0	2330.1	6.05
1088.0	1762.1	6.80	550.0	2050.1	5.59	1810.0	2390.1	6.43
1000.0	1850.1	6.56	610.0	2110.1	5.69	1750.0	2450.1	6.84
890.0	1960.1	6.78	670.0	2170.1	5.82	1690.0	2510.1	7.16
802.0	2048.1	6.90	730.0	2230.1	5.93	1630.0	2570.1	7.14
692.0	2158.1	6.45	790.0	2290.1	6.07	1570.0	2630.1	6.79
604.0	2246.1	6.34	850.0	2350.1	6.16	1510.0	2690.1	6.55
494.0	2356.1	5.96	910.0	2410.1	6.21	1450.0	2750.1	6.26
406.0	2444.1	5.59	970.0	2470.1	5.92	1390.0	2810.1	6.12
296.0	2554.1	5.11	1030.0	2530.1	5.98	1330.0	2870.1	6.31
208.0	2642.1	5.02	1090.0	2590.1	6.00	1270.0	2930.1	6.37
98.0	2752.1	5.13	1150.0	2650.1	5.90	1210.0	2990.1	6.30
10.0	2840.1	5.28	1210.0	2710.1	5.94	1150.0	3050.1	6.07
82.0	2932.1	5.07	1270.0	2770.1	5.98	1090.0	3110.1	5.88
154.0	3004.1	5.47	1330.0	2830.1	5.97	1030.0	3170.1	5.65
244.0	3094.1	5.61	1390.0	2890.1	5.91	970.0	3230.1	6.12
316.0	3166.1	5.66	1450.0	2950.1	5.99	910.0	3290.1	6.27
406.0	3256.1	5.50	1510.0	3010.1	6.42	850.0	3350.1	6.20
478.0	3328.1	5.26	1570.0	3070.1	6.52	790.0	3410.1	5.95
568.0	3418.1	5.33	1630.0	3130.1	6.71	730.0	3470.1	5.53
640.0	3490.1	6.38	1690.0	3190.1	6.91	670.0	3530.1	5.25
730.0	3580.1	6.71	1750.0	3250.1	6.73	610.0	3590.1	5.34
802.0	3652.1	7.01	1810.0	3310.1	6.79	550.0	3650.1	5.41
892.0	3742.1	6.79	1870.0	3370.1	6.62	490.0	3710.1	5.29
964.0	3814.1	6.82	1930.0	3430.1	6.48	430.0	3770.1	5.20
1054.0	3904.1	7.12	1990.0	3490.1	6.38	370.0	3830.1	5.27
1126.0	3976.1	7.13	2050.0	3550.1	6.23	310.0	3890.1	5.28
1216.0	4066.1	7.06	2110.0	3610.1	6.03	250.0	3950.1	5.30
1288.0	4138.1	6.93	2190.0	3690.1	6.25	190.0	4010.1	5.39
1378.0	4228.1	7.20	2250.0	3750.1	6.98	130.0	4070.1	5.60
1450.0	4300.1	7.61	2330.0	3830.1	9.00	70.0	4130.1	5.51
1540.0	4390.1	7.67	2390.0	3890.1	10.14	10.0	4190.1	5.24

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
1520.0	27.59	26.76	26.17	20.26	22.09	23.46
1560.0	27.51	26.77	26.13	20.57	22.42	23.84
1600.0	26.71	26.16	25.72	20.96	22.71	24.09
1640.0	26.25	25.83	25.47	21.61	23.35	24.74
1680.0	25.83	25.54	25.27	22.15	24.03	25.51
1720.0	25.92	25.46	25.14	22.37	24.32	25.94
1760.0	25.87	25.46	25.13	22.69	24.76	26.46
1800.0	25.75	25.37	25.06	22.85	24.80	26.54
1840.0	25.54	25.22	24.97	22.81	24.85	26.60
1880.0	25.46	24.99	24.59	22.19	23.98	25.48
1920.0	25.55	25.07	24.68	21.98	23.68	25.05
1960.0	25.80	25.24	24.78	21.26	22.74	23.86
2000.0	25.91	25.25	24.77	21.03	22.09	22.77
2040.0	26.23	25.55	25.00	20.40	21.20	21.67
2080.0	26.70	25.85	25.01	19.60	20.19	20.43
2120.0	27.40	26.33	25.55	19.58	20.03	20.21
2160.0	27.02	26.41	25.82	19.38	19.61	19.63
2200.0	27.30	26.63	26.02	18.90	19.03	19.00
2240.0	27.84	27.17	26.59	18.50	18.61	18.57
2280.0	28.24	27.65	27.00	18.38	18.43	18.32
2320.0	28.61	28.22	27.83	18.39	18.15	18.12
2360.0	27.47	27.74	27.72	18.50	18.26	17.88
2400.0	27.77	27.77	27.49	18.29	18.04	17.66
2440.0	27.77	28.08	27.85	18.45	18.07	17.60
2480.0	27.48	28.18	28.14	18.56	18.10	17.57
2520	27.29	27.66	27.69	18.81	18.28	17.77
2560	26.85	27.49	27.65	19.02	18.32	17.77
2600	26.46	27.28	27.51	18.95	18.23	17.65
2640	25.65	26.24	26.83	19.05	18.14	17.69
2800	23.40	23.78	24.26	18.52	17.49	16.78
2960	22.76	22.60	22.77	17.63	16.47	15.89
3120	21.02	20.55	20.27	16.42	15.34	14.39
3280	20.32	19.80	19.64	14.80	14.04	13.68
3440	19.96	19.59	19.52	14.37	13.90	13.73
3600	20.02	19.93	20.01	14.87	14.68	14.67
3760	20.29	20.38	20.56	15.70	15.75	15.90
3920	20.73	20.89	20.93	16.58	16.86	17.08
4080	21.31	21.83	21.77	17.22	17.74	18.04
4240	21.42	21.59	21.10	17.77	18.29	18.55

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
1490.0	1520.0	25.66	24.46	23.30
1530.0	1560.0	26.49	25.07	24.04
1570.0	1600.0	28.01	26.60	25.10
1610.0	1640.0	25.19	24.23	23.32
1650.0	1680.0	23.78	22.62	21.75
1690.0	1720.0	22.38	21.31	20.26
1730.0	1760.0	19.95	19.29	18.66
1770.0	1800.0	18.50	17.94	17.34
1810.0	1840.0	17.29	16.51	15.86
1850.0	1880.0	16.32	15.75	15.11
1890.0	1920.0	14.97	14.46	13.96
1930.0	1960.0	14.01	13.44	12.93
1970.0	2000.0	13.12	12.49	11.95
2010.0	2040.0	12.55	11.87	11.36
2050.0	2080.0	12.30	11.67	11.18
2090.0	2120.0	11.63	11.10	10.68
2130.0	2160.0	11.17	10.76	10.46
2170.0	2200.0	10.71	10.46	10.23
2210.0	2240.0	10.50	10.40	10.34
2250.0	2280.0	10.28	10.26	10.26
2290.0	2320.0	9.76	9.85	9.89
2330.0	2360.0	10.20	10.06	9.97
2370.0	2400.0	11.81	11.80	11.81
2410.0	2440.0	12.20	12.29	12.33
2450.0	2480.0	12.71	12.92	12.96
2490.0	2520.0	13.15	13.36	13.46
2530.0	2560.0	13.80	13.95	14.06
2570.0	2600.0	14.32	14.51	14.63
2610.0	2640.0	15.08	15.14	15.22
2770.0	2800.0	17.64	17.75	17.77
2930.0	2960.0	19.79	20.08	20.34
3090.0	3120.0	21.14	21.38	21.59
3250.0	3280.0	22.82	23.04	23.17
3410.0	3440.0	25.03	25.26	25.49
3570.0	3600.0	26.94	27.22	27.60
3730.0	3760.0	28.01	28.25	28.55
3890.0	3920.0	29.20	29.50	29.70
4050.0	4080.0	30.29	30.92	31.26
4210.0	4240.0	30.98	31.89	32.40

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=4200MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
1490.0	1520.0	2.79	2.67	2.57	1520.0	4.80	6.11	7.94	10.0	1.34	1.08	1.05
1530.0	1560.0	2.80	2.66	2.56	1560.0	4.67	5.99	7.76	30.0	1.39	1.11	1.01
1570.0	1600.0	3.05	2.95	2.86	1600.0	4.57	5.93	7.73	50.0	1.38	1.11	1.04
1610.0	1640.0	2.93	2.84	2.77	1640.0	4.60	6.05	7.90	70.0	1.38	1.12	1.06
1650.0	1680.0	2.99	2.86	2.77	1680.0	4.54	6.01	7.87	90.0	1.34	1.08	1.07
1690.0	1720.0	3.07	2.92	2.82	1720.0	4.86	6.39	8.39	110.0	1.40	1.13	1.04
1730.0	1760.0	3.08	2.95	2.86	1760.0	4.73	6.28	8.23	130.0	1.39	1.13	1.08
1770.0	1800.0	3.06	2.95	2.86	1800.0	4.91	6.58	8.64	150.0	1.41	1.13	1.04
1810.0	1840.0	3.02	2.88	2.79	1840.0	4.98	6.66	8.72	170.0	1.45	1.19	1.11
1850.0	1880.0	3.13	2.95	2.82	1880.0	5.09	6.78	8.86	190.0	1.39	1.13	1.08
1890.0	1920.0	3.05	2.88	2.76	1920.0	5.46	7.31	9.53	210.0	1.47	1.19	1.09
1930.0	1960.0	3.09	2.89	2.75	1960.0	5.41	7.20	9.38	230.0	1.47	1.20	1.12
1970.0	2000.0	2.99	2.79	2.66	2000.0	5.85	7.76	10.13	250.0	1.50	1.21	1.10
2010.0	2040.0	2.95	2.75	2.60	2040.0	5.81	7.66	9.85	270.0	1.55	1.26	1.15
2050.0	2080.0	3.01	2.80	2.63	2080.0	5.89	7.73	9.96	290.0	1.53	1.24	1.15
2090.0	2120.0	2.63	2.47	2.36	2120.0	6.11	8.01	10.31	310.0	1.55	1.25	1.14
2130.0	2160.0	2.66	2.50	2.38	2160.0	6.05	7.83	9.96	330.0	1.56	1.26	1.14
2170.0	2200.0	2.60	2.44	2.31	2200.0	6.61	8.51	10.82	350.0	1.65	1.33	1.20
2210.0	2240.0	2.58	2.46	2.36	2240.0	6.56	8.27	10.37	370.0	1.65	1.35	1.23
2250.0	2280.0	2.67	2.53	2.42	2280.0	6.83	8.60	10.69	390.0	1.68	1.36	1.23
2290.0	2320.0	2.72	2.55	2.42	2320.0	7.08	8.77	10.89	410.0	1.70	1.38	1.25
2330.0	2360.0	3.19	3.03	2.88	2360.0	7.00	8.51	10.43	430.0	1.76	1.43	1.29
2370.0	2400.0	3.09	2.95	2.84	2400.0	7.38	8.90	10.89	450.0	1.79	1.49	1.37
2410.0	2440.0	2.96	2.75	2.63	2440.0	7.34	8.68	10.37	470.0	1.68	1.41	1.33
2450.0	2480.0	3.01	2.71	2.51	2480.0	7.56	8.90	10.56	490.0	1.59	1.37	1.31
2490.0	2520.0	3.08	2.82	2.56	2520.0	7.50	8.86	10.56	510.0	1.43	1.25	1.24
2530.0	2560.0	3.03	2.76	2.54	2560.0	7.50	8.64	10.25	530.0	1.39	1.16	1.13
2570.0	2600.0	3.00	2.72	2.51	2600.0	7.50	8.60	10.19	550.0	1.39	1.15	1.10
2610.0	2640.0	2.90	2.56	2.33	2640.0	7.34	8.16	9.53	570.0	1.38	1.12	1.06
2770.0	2800.0	2.37	2.03	1.82	2800.0	6.66	7.02	8.08	590.0	1.38	1.11	1.03
2930.0	2960.0	2.49	2.09	1.84	2960.0	5.68	5.74	6.39	610.0	1.38	1.12	1.02
3090.0	3120.0	2.08	1.80	1.63	3120.0	4.03	3.96	4.41	630.0	1.43	1.17	1.06
3250.0	3280.0	2.34	2.10	1.94	3280.0	3.05	3.17	3.61	650.0	1.44	1.17	1.05
3410.0	3440.0	2.09	1.82	1.65	3440.0	2.62	2.96	3.52	670.0	1.41	1.14	1.04
3570.0	3600.0	2.36	2.18	1.96	3600.0	3.09	3.56	4.31	690.0	1.38	1.13	1.04
3730.0	3760.0	2.31	2.14	1.96	3760.0	4.13	4.61	5.49	710.0	1.37	1.14	1.09
3890.0	3920.0	2.20	2.06	1.95	3920.0	5.52	5.77	6.66	730.0	1.41	1.17	1.09
4050.0	4080.0	2.03	1.93	1.86	4080.0	6.58	6.03	6.56	750.0	1.38	1.13	1.06
4210.0	4240.0	1.86	1.83	1.85	4240.0	8.31	6.76	6.81	770.0	1.34	1.10	1.06

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+9	21	34	15	29	49	45	42	---	---
1	-	14	+0	31	19	40	34	37	61	55	62	---
2	79	49	58	42	54	50	67	47	59	61	56	61
3	>90	>71	66	68	60	68	>71	>71	65	>71	>71	70
4	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
5	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
6	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
7	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
8	>90	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
9	---	---	>71	>71	>71	>71	>71	>71	>71	>71	>71	>71
10	---	---	---	>71	>71	>71	>71	>71	>71	>71	>71	>71
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2850.1 MHz; -14.00 dBm.
LO IN: 2880.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -19.4 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	32	46	29	43	57	56	67	---	---
1	-	14	+0	33	19	43	38	42	73	62	65	---
2	59	41	51	36	48	48	65	43	53	61	68	61
3	>90	52	46	49	39	51	43	64	49	57	72	70
4	>90	69	68	61	63	54	61	60	76	57	68	68
5	>90	>81	69	>81	78	66	59	68	66	74	64	79
6	>90	>81	78	>81	>81	73	75	67	73	67	>81	70
7	>90	>81	>81	>81	>81	>81	>81	>81	66	>81	68	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	77	>81	76
9	---	---	>81	>81	>81	>81	>81	>81	>81	>81	79	>81
10	---	---	---	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2850.1 MHz; -4.00 dBm.
LO IN: 2880.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -9.46 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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