Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=430MHz (dB) @LO (dBm)		
		+7	+10	+13
3450.0	3020.0	8.23	8.07	8.05
3455.0	3025.0	8.19	8.03	8.01
3460.0	3030.0	8.16	7.99	7.96
3465.0	3035.0	8.14	7.97	7.94
3470.0	3040.0	8.14	7.96	7.93
3475.0	3045.0	8.15	7.97	7.94
3480.0	3050.0	8.16	7.99	7.97
3485.0	3055.0	8.18	8.02	8.00
3490.0	3060.0	8.21	8.04	8.03
3495.0	3065.0	8.23	8.07	8.06
3500.0	3070.0	8.27	8.10	8.09
3505.0	3075.0	8.30	8.12	8.10
3510.0	3080.0	8.34	8.14	8.12
3515.0	3085.0	8.35	8.16	8.13
3520.0	3090.0	8.37	8.17	8.14
3525.0	3095.0	8.38	8.18	8.15
3535.0	3105.0	8.40	8.19	8.15
3540.0	3110.0	8.40	8.17	8.14
3545.0	3115.0	8.38	8.16	8.11
3550.0	3120.0	8.37	8.14	8.08
3555.0	3125.0	8.38	8.12	8.06
3560.0	3130.0	8.39	8.11	8.04
3565.0	3135.0	8.40	8.11	8.03
3570.0	3140.0	8.42	8.12	8.03
3575.0	3145.0	8.46	8.13	8.04
3580.0	3150.0	8.48	8.16	8.06
3585.0	3155.0	8.52	8.19	8.08
3590.0	3160.0	8.56	8.21	8.10
3595.0	3165.0	8.59	8.24	8.13
3600.0	3170.0	8.64	8.28	8.15
3605.0	3175.0	8.67	8.31	8.18
3610.0	3180.0	8.71	8.33	8.21
3615.0	3185.0	8.73	8.36	8.24
3620.0	3190.0	8.77	8.39	8.26
3625.0	3195.0	8.79	8.41	8.27
3630.0	3200.0	8.82	8.42	8.28
3635.0	3205.0	8.84	8.43	8.27
3640.0	3210.0	8.86	8.43	8.26
3645.0	3215.0	8.87	8.43	8.25

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+7	+10	+13
3450.0	3020.0	20.59	27.19	33.48
3455.0	3025.0	20.61	26.09	33.50
3460.0	3030.0	20.46	26.05	33.22
3465.0	3035.0	20.56	25.91	33.46
3470.0	3040.0	20.12	25.12	33.53
3475.0	3045.0	19.89	24.99	32.38
3480.0	3050.0	19.82	27.03	31.87
3485.0	3055.0	19.92	26.31	32.87
3490.0	3060.0	20.19	27.59	32.25
3495.0	3065.0	20.47	24.57	32.39
3500.0	3070.0	19.91	24.58	32.02
3505.0	3075.0	19.75	26.38	31.95
3510.0	3080.0	19.73	24.09	31.58
3515.0	3085.0	19.50	24.70	30.75
3520.0	3090.0	19.32	23.53	30.80
3525.0	3095.0	19.14	23.36	30.49
3535.0	3105.0	18.86	23.37	30.77
3540.0	3110.0	18.83	24.89	29.88
3545.0	3115.0	18.74	24.07	30.08
3550.0	3120.0	18.53	22.40	29.35
3555.0	3125.0	18.30	22.31	28.82
3560.0	3130.0	16.83	22.51	23.66
3565.0	3135.0	18.29	24.64	27.56
3570.0	3140.0	17.78	21.63	28.39
3575.0	3145.0	17.49	21.06	27.87
3580.0	3150.0	17.37	20.75	26.29
3585.0	3155.0	17.45	20.93	27.71
3590.0	3160.0	17.44	23.68	27.54
3595.0	3165.0	17.83	20.76	27.52
3600.0	3170.0	17.68	21.05	27.58
3605.0	3175.0	17.19	20.78	26.61
3610.0	3180.0	17.09	20.55	26.23
3615.0	3185.0	17.00	21.24	26.05
3620.0	3190.0	17.18	20.33	26.45
3625.0	3195.0	16.94	20.62	26.09
3630.0	3200.0	17.11	21.19	25.58
3635.0	3205.0	16.79	20.14	25.17
3640.0	3210.0	16.69	19.90	24.85
3645.0	3215.0	16.65	20.00	23.91

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB) @LO (dBm)		
		+7	+10	+13
3450.0	3020.0	0.21	0.06	0.03
3455.0	3025.0	0.23	0.07	0.03
3460.0	3030.0	0.25	0.08	0.03
3465.0	3035.0	0.27	0.09	0.03
3470.0	3040.0	0.29	0.09	0.04
3475.0	3045.0	0.32	0.09	0.04
3480.0	3050.0	0.34	0.10	0.03
3485.0	3055.0	0.37	0.11	0.04
3490.0	3060.0	0.39	0.11	0.04
3495.0	3065.0	0.39	0.12	0.03
3500.0	3070.0	0.40	0.12	0.03
3505.0	3075.0	0.41	0.12	0.03
3510.0	3080.0	0.41	0.12	0.04
3515.0	3085.0	0.42	0.12	0.04
3520.0	3090.0	0.41	0.12	0.04
3525.0	3095.0	0.42	0.12	0.03
3535.0	3105.0	0.44	0.13	0.04
3540.0	3110.0	0.45	0.13	0.04
3545.0	3115.0	0.46	0.14	0.04
3550.0	3120.0	0.48	0.15	0.04
3555.0	3125.0	0.50	0.16	0.05
3560.0	3130.0	0.51	0.18	0.05
3565.0	3135.0	0.52	0.19	0.06
3570.0	3140.0	0.52	0.20	0.05
3575.0	3145.0	0.51	0.20	0.06
3580.0	3150.0	0.53	0.20	0.06
3585.0	3155.0	0.52	0.21	0.06
3590.0	3160.0	0.51	0.21	0.06
3595.0	3165.0	0.51	0.21	0.06
3600.0	3170.0	0.49	0.20	0.05
3605.0	3175.0	0.48	0.20	0.06
3610.0	3180.0	0.48	0.20	0.06
3615.0	3185.0	0.46	0.20	0.06
3620.0	3190.0	0.47	0.20	0.05
3625.0	3195.0	0.47	0.20	0.05
3630.0	3200.0	0.46	0.20	0.05
3635.0	3205.0	0.46	0.21	0.06
3640.0	3210.0	0.46	0.22	0.06
3645.0	3215.0	0.46	0.23	0.07

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3550MHz (dB) @LO (dBm) +10
899.9	2650.1	12.27
844.3	2705.7	10.93
788.7	2761.3	9.81
733.0	2817.0	9.27
677.4	2872.6	8.83
621.8	2928.2	8.58
566.2	2983.8	8.40
510.6	3039.4	8.27
455.0	3095.1	8.17
399.3	3150.7	8.11
343.7	3206.3	8.13
288.1	3261.9	8.20
232.5	3317.5	8.46
176.9	3373.1	8.97
121.2	3428.8	10.31
93.4	3456.6	11.48
37.8	3512.2	17.58
10.0	3540.0	29.05
22.8	3572.8	21.87
35.6	3585.6	18.21
61.3	3611.3	14.56
74.1	3624.1	13.47
99.7	3649.7	12.11
112.5	3662.5	11.48
138.2	3688.2	10.66
151.0	3701.0	10.51
176.6	3726.6	10.33
189.4	3739.4	10.29
215.1	3765.1	10.01
227.9	3777.9	9.90
253.5	3803.5	9.99
266.3	3816.3	10.07
291.9	3841.9	10.18
304.8	3854.8	10.13
330.4	3880.4	10.10
343.2	3893.2	10.17
368.8	3918.8	10.47
381.7	3931.7	10.52
407.3	3957.3	10.49
420.1	3970.1	10.46

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3500MHz (dB) @LO (dBm) +10
10.1	3510.1	28.54
30.4	3530.4	19.48
50.6	3550.6	15.55
70.9	3570.9	13.30
91.1	3591.1	11.95
111.4	3611.4	11.17
131.6	3631.6	10.75
151.9	3651.9	10.35
172.2	3672.2	9.96
192.4	3692.4	9.71
212.7	3712.7	9.75
232.9	3732.9	9.81
253.2	3753.2	9.73
273.4	3773.4	9.62
293.7	3793.7	9.64
313.9	3813.9	9.87
334.2	3834.2	10.06
354.5	3854.5	10.00
374.7	3874.7	9.97
395.0	3895.0	10.12
415.2	3915.2	10.40
435.5	3935.5	10.52
455.7	3955.7	10.47
476.0	3976.0	10.46
496.3	3996.3	10.68
516.5	4016.5	10.86
536.8	4036.8	10.93
557.0	4057.0	10.85
577.3	4077.3	10.88
597.5	4097.5	11.10
617.8	4117.8	11.28
638.0	4138.0	11.29
658.3	4158.3	11.03
678.6	4178.6	10.94
698.8	4198.8	11.12
719.1	4219.1	11.27
739.3	4239.3	11.24
759.6	4259.6	11.02
779.8	4279.8	11.13
800.1	4300.1	11.36

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3600MHz (dB) @LO (dBm) +10
950.0	2650.0	12.33
930.0	2670.0	11.57
910.0	2690.0	11.21
890.0	2710.0	10.95
870.0	2730.0	10.55
850.0	2750.0	10.20
830.0	2770.0	9.88
810.0	2790.0	9.64
790.0	2810.0	9.54
770.0	2830.0	9.34
750.0	2850.0	9.16
730.0	2870.0	9.02
710.0	2890.0	8.92
690.0	2910.0	8.91
670.0	2930.0	8.77
650.0	2950.0	8.67
630.0	2970.0	8.62
610.0	2990.0	8.59
590.0	3010.0	8.55
570.0	3030.0	8.50
550.0	3050.0	8.51
530.0	3070.0	8.45
510.0	3090.0	8.43
490.0	3110.0	8.36
450.0	3150.0	8.31
430.0	3170.0	8.28
390.0	3210.0	8.27
370.0	3230.0	8.31
330.0	3270.0	8.30
310.0	3290.0	8.30
270.0	3330.0	8.50
250.0	3350.0	8.62
210.0	3390.0	8.74
190.0	3410.0	9.01
150.0	3450.0	9.78
130.0	3470.0	10.12
90.0	3510.0	11.99
70.0	3530.0	13.55
30.0	3570.0	19.71
10.0	3590.0	29.14

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+7	+10	+13	+7	+10	+13
3020.0	40.23	42.89	44.25	27.68	28.17	28.73
3025.0	40.35	43.19	44.71	27.75	28.23	28.76
3030.0	40.40	42.95	44.05	27.78	28.23	28.70
3035.0	41.16	43.95	44.92	27.84	28.26	28.69
3040.0	41.87	45.78	47.34	27.93	28.33	28.76
3045.0	41.61	46.20	48.75	28.05	28.37	28.85
3050.0	41.32	45.63	47.87	28.14	28.46	28.97
3055.0	41.61	46.03	48.18	28.17	28.56	29.05
3060.0	42.22	47.89	51.21	28.37	28.67	29.19
3065.0	42.25	48.62	54.94	28.53	28.94	29.43
3070.0	41.79	47.75	54.57	28.73	29.13	29.67
3075.0	41.61	47.05	52.80	28.86	29.29	29.80
3080.0	41.81	47.26	53.08	29.03	29.47	30.04
3085.0	41.56	46.75	52.58	29.25	29.71	30.29
3090.0	41.12	45.65	50.09	29.35	29.85	30.44
3095.0	40.87	44.85	48.11	29.42	29.96	30.56
3105.0	40.65	44.19	47.20	29.60	30.10	30.75
3110.0	40.14	43.14	45.56	29.52	30.13	30.75
3115.0	39.61	42.09	44.01	29.51	30.07	30.71
3120.0	39.23	41.33	42.91	29.48	30.07	30.73
3125.0	38.97	40.88	42.31	29.49	30.11	30.77
3130.0	38.62	40.33	41.66	29.47	30.10	30.78
3135.0	38.32	39.78	40.95	29.44	30.07	30.76
3140.0	38.12	39.35	40.15	29.47	30.11	30.59
3145.0	38.00	39.09	39.82	29.44	30.11	30.68
3150.0	38.04	39.00	39.63	29.50	30.14	30.73
3155.0	38.10	38.92	39.46	29.53	30.18	30.74
3160.0	38.07	38.79	39.27	29.56	30.21	30.76
3165.0	38.00	38.60	39.04	29.60	30.22	30.77
3170.0	37.98	38.50	38.95	29.69	30.33	31.03
3175.0	37.94	38.36	38.79	29.74	30.37	31.09
3180.0	37.94	38.27	38.63	29.80	30.44	31.19
3185.0	37.89	38.16	38.46	29.90	30.55	31.26
3190.0	37.92	38.11	38.18	30.01	30.66	31.19
3195.0	37.91	38.11	38.13	30.03	30.70	31.23
3200.0	37.94	38.04	38.12	30.05	30.71	31.22
3205.0	37.89	37.99	37.96	30.06	30.68	31.18
3210.0	37.89	37.90	37.78	30.16	30.69	31.20
3215.0	37.82	37.76	37.85	30.24	30.77	31.43

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+7	+10	+13
3450.0	3020.0	21.03	21.16	21.33
3455.0	3025.0	21.01	21.11	21.28
3460.0	3030.0	20.99	21.11	21.28
3465.0	3035.0	20.97	21.09	21.23
3470.0	3040.0	20.90	20.98	21.11
3475.0	3045.0	20.90	20.95	21.04
3480.0	3050.0	20.83	20.87	20.98
3485.0	3055.0	20.84	20.87	20.99
3490.0	3060.0	20.80	20.84	20.94
3495.0	3065.0	20.77	20.79	20.84
3500.0	3070.0	20.79	20.76	20.83
3505.0	3075.0	20.78	20.75	20.84
3510.0	3080.0	20.74	20.69	20.76
3515.0	3085.0	20.67	20.62	20.64
3520.0	3090.0	20.67	20.60	20.61
3525.0	3095.0	20.71	20.65	20.66
3535.0	3105.0	20.71	20.64	20.62
3540.0	3110.0	20.71	20.61	20.60
3545.0	3115.0	20.76	20.64	20.63
3550.0	3120.0	20.79	20.69	20.66
3555.0	3125.0	20.82	20.71	20.70
3560.0	3130.0	20.82	20.71	20.69
3565.0	3135.0	20.86	20.75	20.70
3570.0	3140.0	20.91	20.80	20.75
3575.0	3145.0	20.94	20.84	20.78
3580.0	3150.0	20.94	20.88	20.83
3585.0	3155.0	20.97	20.89	20.82
3590.0	3160.0	21.03	20.96	20.90
3595.0	3165.0	21.07	21.00	20.99
3600.0	3170.0	21.07	21.00	20.97
3605.0	3175.0	21.06	20.98	20.96
3610.0	3180.0	21.09	21.09	21.04
3615.0	3185.0	21.20	21.14	21.11
3620.0	3190.0	21.21	21.21	21.18
3625.0	3195.0	21.22	21.20	21.20
3630.0	3200.0	21.23	21.21	21.21
3635.0	3205.0	21.26	21.23	21.26
3640.0	3210.0	21.32	21.31	21.34
3645.0	3215.0	21.36	21.37	21.42

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+7	+10	+13
3450.0	3020.0	2.14	2.14	2.18
3455.0	3025.0	2.15	2.15	2.20
3460.0	3030.0	2.17	2.17	2.22
3465.0	3035.0	2.19	2.19	2.24
3470.0	3040.0	2.22	2.22	2.26
3475.0	3045.0	2.25	2.25	2.29
3480.0	3050.0	2.28	2.27	2.32
3485.0	3055.0	2.30	2.29	2.34
3490.0	3060.0	2.32	2.31	2.35
3495.0	3065.0	2.34	2.33	2.37
3500.0	3070.0	2.36	2.34	2.37
3505.0	3075.0	2.37	2.35	2.38
3510.0	3080.0	2.38	2.35	2.38
3515.0	3085.0	2.38	2.35	2.38
3520.0	3090.0	2.38	2.35	2.38
3525.0	3095.0	2.38	2.35	2.37
3535.0	3105.0	2.38	2.34	2.37
3540.0	3110.0	2.38	2.34	2.37
3545.0	3115.0	2.38	2.34	2.37
3550.0	3120.0	2.39	2.35	2.37
3555.0	3125.0	2.40	2.36	2.38
3560.0	3130.0	2.42	2.37	2.39
3565.0	3135.0	2.44	2.39	2.40
3570.0	3140.0	2.46	2.40	2.42
3575.0	3145.0	2.49	2.42	2.43
3580.0	3150.0	2.51	2.44	2.44
3585.0	3155.0	2.53	2.45	2.46
3590.0	3160.0	2.55	2.46	2.47
3595.0	3165.0	2.56	2.48	2.48
3600.0	3170.0	2.58	2.48	2.48
3605.0	3175.0	2.59	2.49	2.48
3610.0	3180.0	2.59	2.49	2.48
3615.0	3185.0	2.60	2.50	2.48
3620.0	3190.0	2.61	2.50	2.48
3625.0	3195.0	2.62	2.50	2.48
3630.0	3200.0	2.62	2.51	2.48
3635.0	3205.0	2.63	2.51	2.48
3640.0	3210.0	2.65	2.52	2.48
3645.0	3215.0	2.65	2.52	2.48

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+7	+10	+13
3020.0	1.79	1.85	1.95
3025.0	1.82	1.90	2.00
3030.0	1.85	1.95	2.06
3035.0	1.89	2.00	2.13
3040.0	1.94	2.06	2.20
3045.0	1.99	2.12	2.27
3050.0	2.04	2.19	2.35
3055.0	2.10	2.26	2.43
3060.0	2.17	2.34	2.52
3065.0	2.24	2.43	2.62
3070.0	2.32	2.52	2.72
3075.0	2.40	2.61	2.82
3080.0	2.49	2.72	2.94
3085.0	2.59	2.82	3.05
3090.0	2.69	2.94	3.18
3095.0	2.79	3.05	3.30
3105.0	3.00	3.27	3.53
3110.0	3.10	3.38	3.65
3115.0	3.20	3.49	3.76
3120.0	3.31	3.60	3.87
3125.0	3.41	3.71	3.99
3130.0	3.52	3.82	4.10
3135.0	3.62	3.93	4.22
3140.0	3.73	4.04	4.33
3145.0	3.83	4.15	4.44
3150.0	3.95	4.28	4.57
3155.0	4.07	4.41	4.72
3160.0	4.20	4.54	4.86
3165.0	4.33	4.68	5.00
3170.0	4.46	4.82	5.16
3175.0	4.60	4.98	5.31
3180.0	4.74	5.12	5.47
3185.0	4.88	5.27	5.61
3190.0	5.02	5.41	5.77
3195.0	5.16	5.54	5.91
3200.0	5.28	5.68	6.05
3205.0	5.41	5.81	6.17
3210.0	5.52	5.91	6.28
3215.0	5.65	6.03	6.37

IF (OUT) (MHz)	IF VSWR @LO=3600MHz (:1) @LO (dBm)		
	+7	+10	+13
170.0	2.54	2.11	1.94
190.0	2.22	1.85	1.72
210.0	1.99	1.63	1.50
230.0	1.79	1.45	1.36
250.0	1.67	1.33	1.26
270.0	1.61	1.25	1.19
290.0	1.59	1.20	1.09
310.0	1.57	1.18	1.10
330.0	1.57	1.20	1.13
350.0	1.62	1.25	1.17
370.0	1.67	1.31	1.23
390.0	1.76	1.39	1.29
410.0	1.83	1.47	1.37
430.0	1.90	1.52	1.42
450.0	1.98	1.60	1.47
470.0	2.08	1.66	1.52
510.0	2.29	1.84	1.67
530.0	2.39	1.90	1.71
550.0	2.50	1.96	1.74
570.0	2.59	2.05	1.81
590.0	2.67	2.12	1.88
610.0	2.78	2.18	1.91
630.0	2.88	2.23	1.95
650.0	2.91	2.26	1.96
670.0	2.95	2.33	2.02
690.0	2.95	2.36	2.06
710.0	2.99	2.38	2.06
730.0	3.04	2.42	2.09
750.0	3.08	2.43	2.07
770.0	3.20	2.52	2.15
790.0	3.22	2.53	2.15
810.0	3.27	2.55	2.15
830.0	3.30	2.57	2.16
850.0	3.36	2.60	2.17
870.0	3.42	2.65	2.20
890.0	3.45	2.67	2.21
910.0	3.44	2.67	2.20
930.0	3.44	2.65	2.18
950.0	3.50	2.70	2.22

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	7	19	22	31	39	36	52	---	---	---
1	-	12	+0	25	19	28	38	59	57	67	---	---
2	76	48	68	55	51	63	76	57	68	68	>77	---
3	>90	64	62	71	55	65	60	68	70	>77	>77	>77
4	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	---	---	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	---	---	---	>77	>77	>77	>77	>77	>77	>77	>77	>77
9	---	---	---	---	>77	>77	>77	>77	>77	>77	>77	>77
10	---	---	---	---	---	>77	>77	>77	>77	>77	>77	>77
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:
RF IN: 3550.1 MHz; -5.00 dBm.
LO IN: 3120.1 MHz; +10.00 dBm
IF OUT: 430 MHz; -13.25 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	17	28	31	40	49	53	63	---	---	---
1	-	12	+0	26	20	30	40	57	61	65	---	---
2	56	38	53	46	43	55	70	49	60	59	76	---
3	82	45	42	57	36	47	42	53	53	68	74	74
4	>90	69	80	63	65	62	76	58	72	64	71	79
5	>90	84	84	77	76	67	58	64	59	67	70	74
6	>90	>87	>87	>87	>87	>87	82	82	72	78	83	85
7	---	---	>87	>87	>87	>87	85	>87	84	>87	78	85
8	---	---	---	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	---	---	---	---	>87	>87	>87	>87	>87	>87	85	>87
10	---	---	---	---	---	>87	>87	>87	>87	>87	>87	>87
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:
RF IN: 3550.1 MHz; 5.00 dBm.
LO IN: 3120.1 MHz; +10.00 dBm
IF OUT: 430 MHz; -3.38 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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