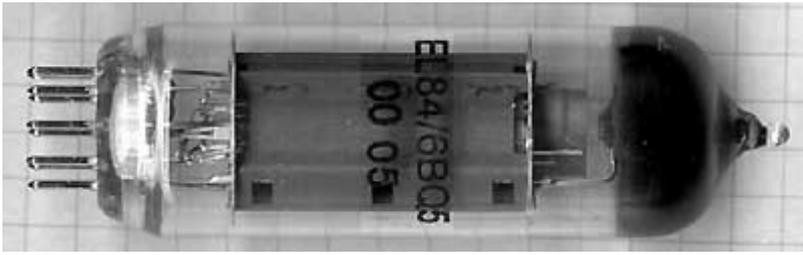


EL84 / 6BQ5 / 6П14П

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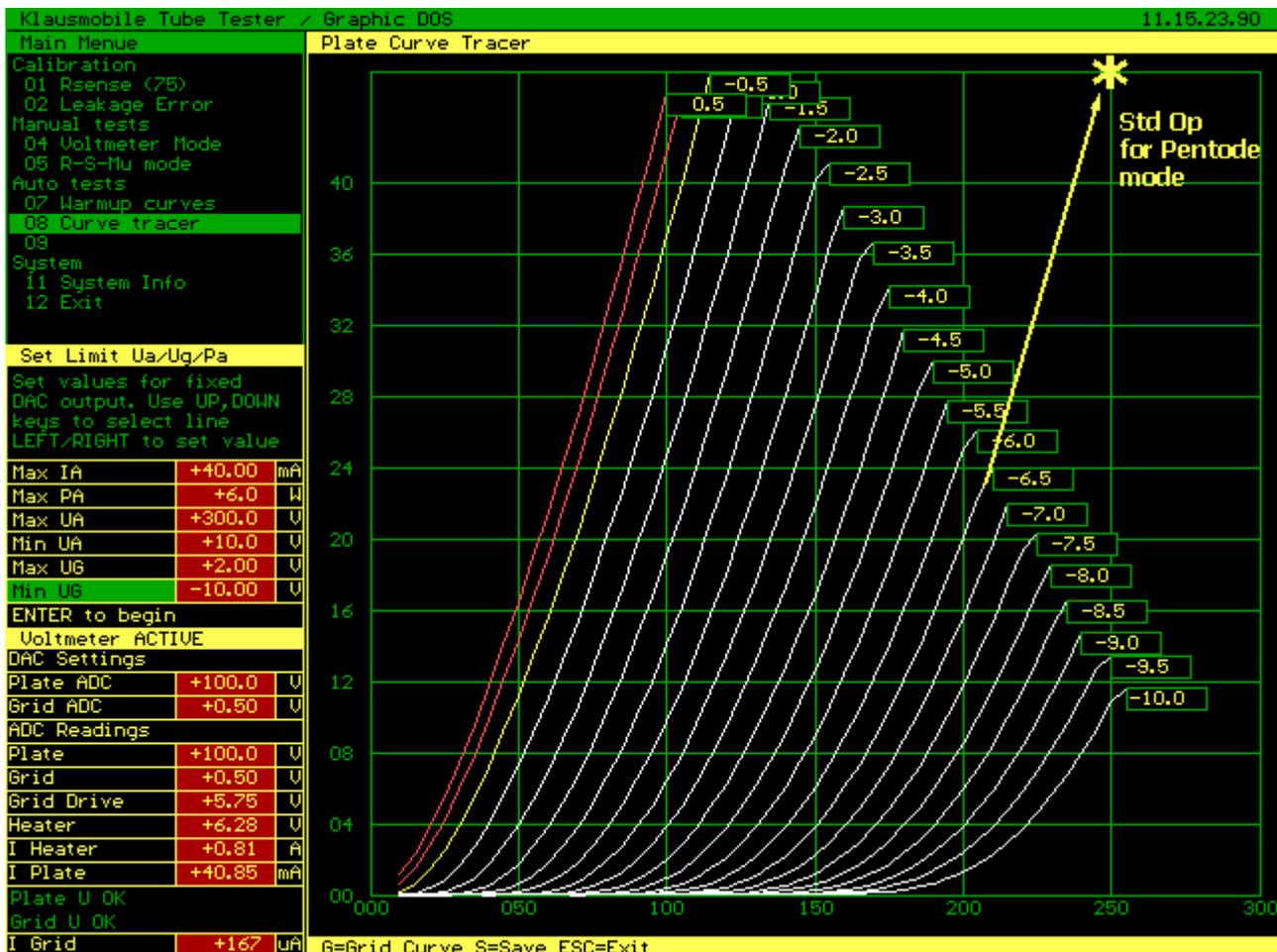
This is regular 6P14P, the better 6P14P-E clone has double getter posts and thicker mica disks. Mu is fairly constant for all (19-23 for all tubes at 20..50 mA current), but transconductance varies +10% / -30%.

Standard specifications

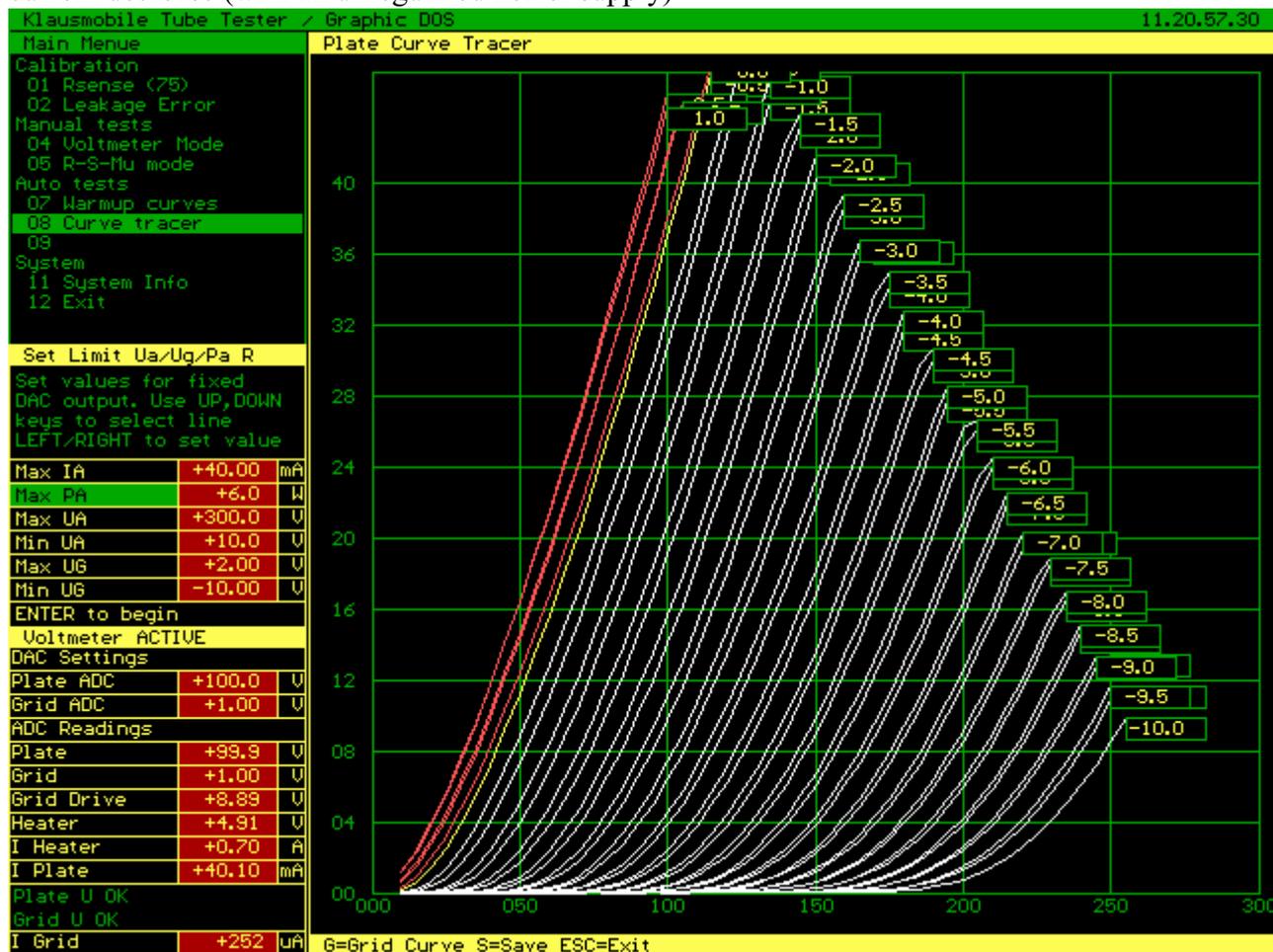
Parameter	Maximum	Operating Point	Estimate
Ua/Ug2, V	300/-	250/250	250
Ug, V	-	(-7)	-6
Ia/Ig2, mA	65 total	48/5	48
Pa, W	14/2.2	12/1.3	12 total
Gm, mA/V	-	11.3 (*)	18
Rp, kOhm	-	not rated (*)	1.2
Mu, V/V	-	not rated (*)	22

(*) Standard specs are for pentode mode, 250V at plate and G2

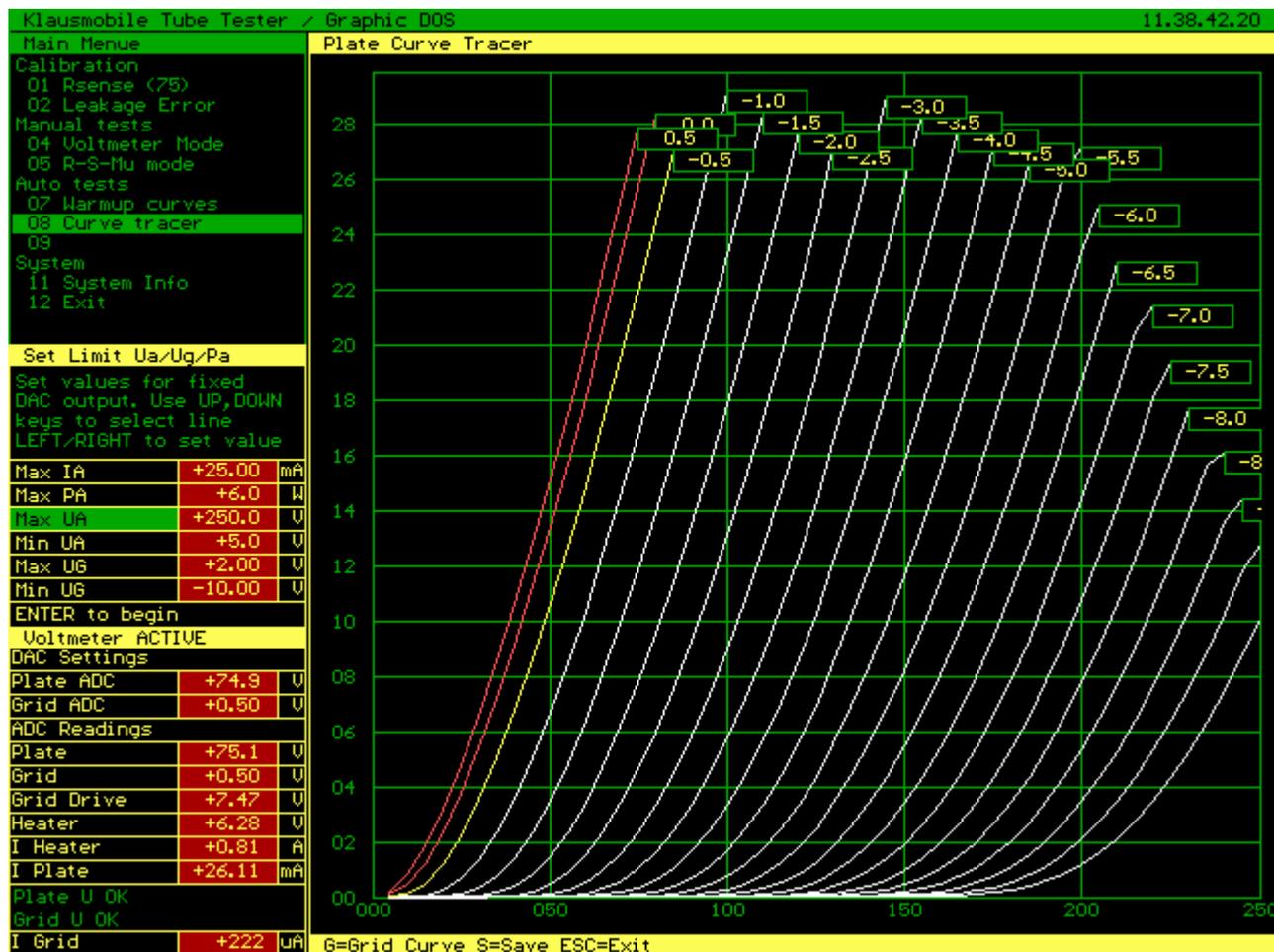
1. Curve at normal Uheater, full operating power



Curves at $U_{heater}=4.9V$ superimposed on the previous chart. Same transconductance/gain, but effective bias must be raised $+0.6V$ to match operating point. Or, each $0.1V$ decrease in heater voltage results in $1.5-2.0\text{ mA}$ current decrease (with an unregulated heater supply)



2. 25mA closeup



3. Gm/Mu/Rp measurements

S/Mu/Rp for Ia=40.0mA and variable Ua/Ug						
Ug, V	Ua, V	Ia, mA	Ga	Gm	Mu	Rp, k
-2.0	145.5	39.36	0.6	20.5	31.6	1.54
-1.5	135.3	40.04	0.7	14.8	22.6	1.52
-1.0	125.0	40.76	0.6	14.3	23.1	1.61
-0.5	112.4	40.04	0.6	13.4	21.7	1.62
0.0	105.0	40.35	0.6	8.5	13.9	1.63
0.5	100.1	39.94	0.6	5.1	8.7	1.69
S/Mu/Rp for Ia=30.0mA and variable Ua/Ug						
Ug, V	Ua, V	Ia, mA	Ga	Gm	Mu	Rp, k
-4.0	172.3	29.67	0.6	13.5	22.4	1.66
-3.5	162.3	30.20	0.6	12.8	22.3	1.73
-3.0	149.9	29.55	0.5	12.4	22.6	1.82
-2.5	140.0	30.21	0.5	12.0	22.3	1.85
-2.0	127.4	29.69	0.6	12.3	22.2	1.80
-1.5	117.5	30.44	0.6	12.5	22.5	1.80
-1.0	105.0	29.96	0.5	12.3	22.8	1.84
-0.5	95.1	30.58	0.5	11.5	21.6	1.87
0.0	86.4	30.02	0.5	6.9	12.8	1.85
0.5	82.6	30.19	0.5	4.1	7.7	1.84
S/Mu/Rp for Ia=20.0mA and variable Ua/Ug						
Ug, V	Ua, V	Ia, mA	Ga	Gm	Mu	Rp, k
-6.5	207.2	20.35	0.5	10.6	21.9	2.05
-6.0	194.7	19.64	0.5	10.2	22.0	2.15
-5.5	184.8	20.03	0.5	10.0	21.8	2.18
-5.0	173.6	19.91	0.5	10.1	21.9	2.16
-4.5	162.3	19.73	0.5	10.0	21.8	2.17
-4.0	152.3	20.21	0.5	10.2	22.2	2.16
-3.5	141.1	20.12	0.5	10.1	21.5	2.13
-3.0	130.1	20.02	0.5	9.9	21.7	2.18
-2.5	118.8	20.06	0.5	10.3	21.6	2.09
-2.0	107.5	20.02	0.5	10.4	22.2	2.13
-1.5	96.3	20.04	0.5	10.5	22.2	2.11
-1.0	85.0	20.12	0.5	10.3	21.9	2.12
-0.5	74.0	20.08	0.5	9.7	20.9	2.15
0.0	66.5	20.01	0.5	5.5	11.7	2.13
0.5	62.7	20.04	0.5	3.4	7.0	2.09
S/Mu/Rp for Ia=10.0mA and variable Ua/Ug						
Ug, V	Ua, V	Ia, mA	Ga	Gm	Mu	Rp, k
-9.0	230.5	10.06	0.3	7.1	22.5	3.10
-8.5	219.4	9.81	0.3	6.7	22.0	3.20
-8.0	209.4	9.89	0.3	6.8	22.5	3.20
-7.5	199.5	9.96	0.3	6.6	21.8	3.30
-7.0	189.6	10.15	0.3	6.8	22.0	3.20
-6.5	178.4	9.93	0.3	6.7	21.3	3.10
-6.0	168.4	10.09	0.3	7.0	21.5	3.00
-5.5	157.2	9.85	0.3	6.9	21.4	3.10
-5.0	147.3	10.02	0.3	6.8	21.3	3.10
-4.5	136.6	10.00	0.3	7.1	21.2	3.00
-4.0	126.1	10.04	0.3	7.2	21.2	2.95
-3.5	115.0	9.80	0.3	6.9	20.8	3.00
-3.0	105.0	10.03	0.3	7.1	20.9	2.93
-2.5	93.7	9.93	0.4	7.4	21.2	2.84
-2.0	83.2	10.06	0.4	7.7	21.1	2.76
-1.5	72.6	10.16	0.4	7.7	21.0	2.72
-1.0	61.3	10.17	0.4	8.0	21.2	2.66
-0.5	50.3	10.01	0.4	7.3	19.5	2.67
0.0	44.0	10.13	0.4	3.8	9.9	2.57
0.5	40.2	10.00	0.4	2.2	5.8	2.59

Legend: White curves: $I_g < 5\mu A$ Yellow: $5 < I_g < 20\mu A$ Red: $20 < I_g < 300\mu A$. Measurements terminate at $I_g > 300\mu A$