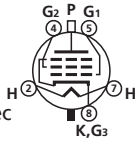


6G-B3A 12G-B3

(Toshiba P378) (Toshiba P566)
 Eh=6.3V Eh=12.6V
 Ih=1.2A Ih=0.6A 11sec



Max Operating

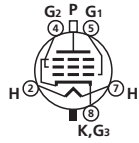
Eb=600V Ploss=14W / 11W(12G-B3)
 Ec2=220V C2loss=5.5W
 Rg1=500k(both Fix and K)
 Eh-k=+110V, -220V

Class A Amplifier

Eb=100V Ec2=100V
 Ec1=-7.7V Rp=5.3kΩ
 Ib=100mA
 Ic2=7.0mA
 gm=14,000μMo

12G-B7

(Toshiba P568)
 Eh=12.6V
 Ih=0.6A 11sec



Max Operating

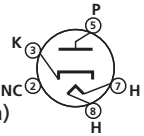
Eb=770V Ploss=16.5W
 Ec2=275V C2loss=5.5W
 Rg1=500k(both Fix and K)
 Eh-k=+110V, -220V

Class A Amplifier

Eb=100V Ec2=100V
 Ec1=-7.7V Rp=5.3kΩ
 Ib=100mA
 Ic2=7.0mA
 gm=14,000μMo

6G-K17

(Toshiba P393)
 Eh=6.3V
 Ih=1.3A(Toshiba)



12G-K17

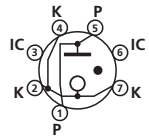
(Toshiba P569)
 Eh=12.6V
 Ih=0.6A(Toshiba) 11sec

Max Operating

Er-peak=4.5kV
 P-loss=6.5W
 Ip-peak=1.15A
 Ip=190mA
 Eh-k=+110V, -900V

0B2 / VR105MT

(National P492)
 Eh=0V
 Ih=0A



Max Operating

Ebb=133Vmin (50---500lux)
 DC Cathode Current=5mA min, 30mA max
 Starting Current=75mA max
 Shunt Capacitor=0.1μF max
 Ambient Temperature=-55°C min, 90°C max

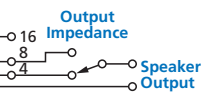
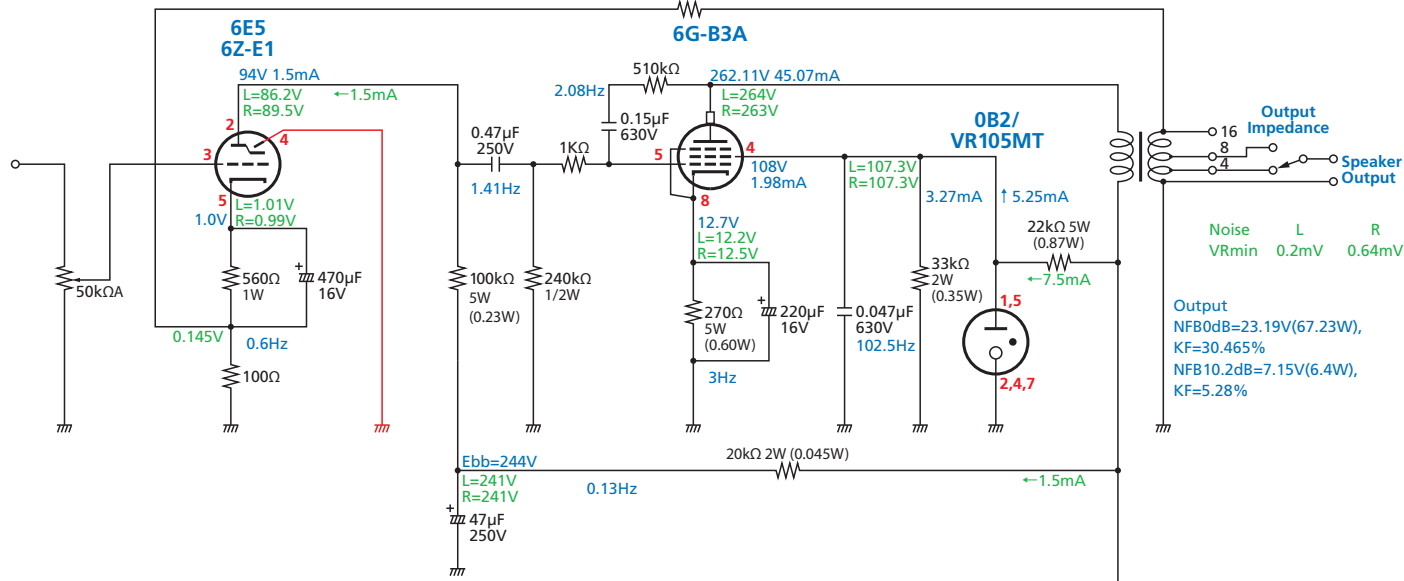
Constant Voltage

Eb=106V min---108V ave.---111V max
 Starting Eb=127V max, 210 max (when Dark)
 Regulation=3.5V max (at 5mA---30mA)

Pp=0.13W
 μ=15.0, KF=2.07%

Pp=11.24W (max14W)
 Pg2=0.19W (max5.5W)
 input=5Vrms, output=7.83W, KF=10.231%, 3.76%at1W

ATOM OPT
 5kΩ / DCR=193Ω

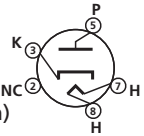


Noise L R
 VRmin 0.2mV 0.64mV

Output
 NFB0dB=23.19V(67.23W),
 KF=30.465%
 NFB10.2dB=7.15V(6.4W),
 KF=5.28%

6G-K17

(Toshiba P393)
 Eh=6.3V
 Ih=1.3A(Toshiba)



12G-K17

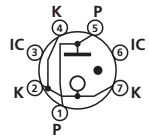
(Toshiba P569)
 Eh=12.6V
 Ih=0.6A(Toshiba) 11sec

Max Operating

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 P-loss=6.5W
 Ip-peak=1.15A
 Ip=190mA
 Eh-k=+110V, -900V

0B2 / VR105MT

(National P492)
 Eh=0V
 Ih=0A

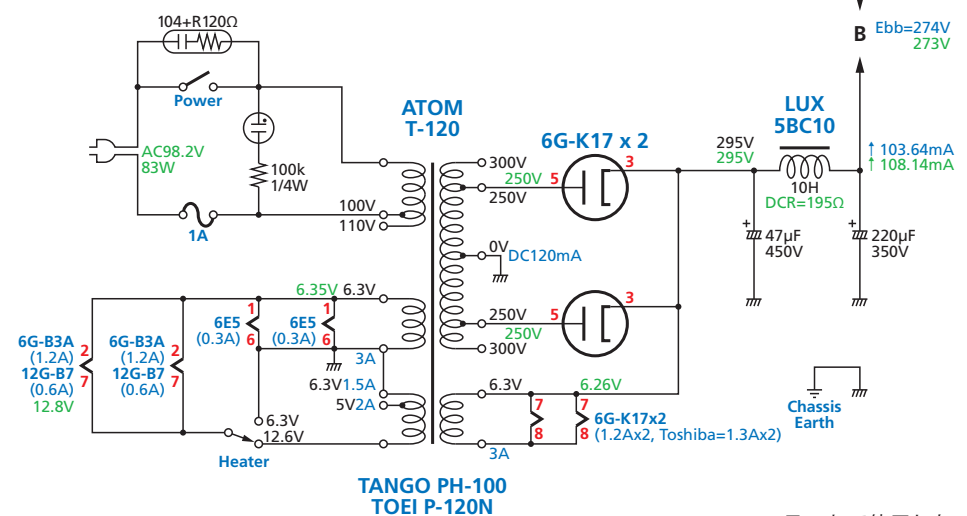


Max Operating

Ebb=133Vmin (50---500lux)
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 Starting Current=75mA max
 Shunt Capacitor=0.1μF max
 Ambient Temperature=-55°C min, 90°C max

Constant Voltage

Eb=106V min---108V ave.---111V max
 Starting Eb=127V max, 210 max (when Dark)
 Regulation=3.5V max (at 5mA---30mA)



テストで使用したマジックアイは
 トーヨー 6E5 Em76 輝度 60%
 トーヨー 6ZE1 Em81 輝度 70%

Target を高電圧にした方が良さそう
 Target OFF ON
 Input0.1V 1V 0.96V
 Noise 3mV 0.15mV
 ゲインが僅かしか低下しなかった



TA=E
 この回路で特性測定したため回路保存