BTP KT88

BRIMAR®
THERMIONIC PRODUCTS

Push-Pull. Class AB1. Cathode Bias. Ultra-Linear Connection (40% Tapping Points)

Va, g 2(b)	500	375	V
Va, g 2(o)	436	328	V
Ialg2(o)	2x87	2x87	ma
Ialg2(max. sig)	2x 99	2x96	ma
RL(a-a)	6	5	k ohms
Rk*	2 x 600	2 x 400	ohms
-Vg1	52 (approx)	35 (approx)	V
Pout	50	30	W
Dtot	1.5	1	%
I. M.**	4	3	%
Palg2(o)	2 x 38	2 x 28.5	W
Palg2(max. sig)	2 x 17	2 x 16	W
Vin(g1-g1)(pk)	104	71	V
Zout	4.8	4.5	k ohms

*It is essential to use two separate cathode bias resistors.
**Intermodulation distortion: measured using two input signals at 50 and 6000 hz (ratio of amplitudes 4:1).

Push-Pull. Class AB1. Fixed Bias. Ultra-Linear Connection. (40% Tapping Points)

Va, g 2(b)	560	460	V
Va, g 2(o)	553	453	V
Ialg2(o)	2 x 50	2 x 50	ma
Ialg2(max. sig)	2 x 157	2 x 140	ma
RL(a-a)	4.5	4	k ohms
-Vg1*	75 (approx)	59 (approx)	V
Pout	100	70	W
Dtot	2	2	%
I. M.**	11	10	%
Palg2(o)	2 x 27.5	2 x 22.5	W
Palg2(max. sig)	2 x 33	2 x 27	W
Vin(g1-g1)(pk)	140	114	V
Zout	7	6.5	k ohms

*It is essential to provide two separately adjustable bias voltage sources, having a voltage adjustment range of 25%.
**Intermodulation distortion: measured using two input signals at 50 and 6000 hz (ratio of amplitudes 4:1).

Push-Pull. Class AB1. Cathode Bias. Triode Connection.

Va, g 2(b)	400	485	V
Va, g 2(o)	349	442	V
Ialg2(o)	2 x 76	2 x 94	ma
Ialg2(max. sig)	2 x 80	2 x 101	ma
RL(a-a)	4	4	k ohms
-Vg1	40 (approx)	50 (approx)	V
Pout	17	31	W
Dtot	5.6	1.5	%
I. M.*	5.6	5.6	%
Palg2(o)	2 x 26.5	2 x 40	W
Palg2(max. sig)	2 x 19	2 x 27	W
Rk	2 x 525	2 x 525	ohms
Vin(g1-g1)(pk)	140	114	V
Zout	2	1.9	k ohms

Intermodulation distortion: measured using two input signals at 50 and 6000 hz (ratio of amplitudes 4:1).

INSTALLATION

The valve may be mounted either vertically or horizontally.

When a pair of valves is mounted vertically, it is recommended that the centers of the valve sockets are not less than 4 inches apart and that pins 4 and 8 of each valve are in line.

When a pair of valves is mounted horizontally, it is recommended that the centers of the valve sockets are not less than 4 inches apart and that pins 4 and 8 of each valve are in the same vertical line.

Free air circulation around the valve is desirable.

Brimar thermionic products KT88

Filament Heating 6.3V

IH............1.62A Maximum Ratings

Plate voltage..................800   800 800 800V

Grid 2 voltage................600   600 600 600V

grid 1 voltage................200   –200 –200 –200V

Plate power dissipation....42   45   35   40W

grid 2 power dissipation.. 8   8   6   6W

Plate + grid 2 dissipation 46   49   40   45W

cathode current...............230   230 230   230mA

fV between cathodes   200   200   250   250V

grid 1 resistance For self–biasing

Pa + Pg2< 35W 0.47 M½

Pa +Pg2 > 35W 0.27 M½

For fixed–biasing

Pa +Pg2<35W 0.22 M ½

Pa +Pg2> 35W 0.10 M ½

Capacitance Tetrode config. Triodes config.

Input capacitance.........

16–––– 9.3pF

Output capacitance......... 12 –––– 17pF

Muller capacitance......... 1.2 ––––7.9pF

Parameters Tetrode config.

Ua.....................250V

Ug2.................. 250V

a..................... 140mA Ig2(approx)...... 3mA –

Ug1(approx)......15V

Gm.................... 12mA/V

ri ....12K ½

ug1–g2.............. 8