KT32

Osram VALVES

KT32 OUTPUT TETRODE

DESCRIPTION

Type KT32 is an indirectly heated power tetrode for use in the output stage of D.C. and A.C./D.C. mains receivers and amplifiers designed for a working H.T. voltage of 110—135 volts.

The type is designed with alignment of the control and screen grids resulting in reduced screen current.

Type KT32 is interchangeable with American type 25L6G.

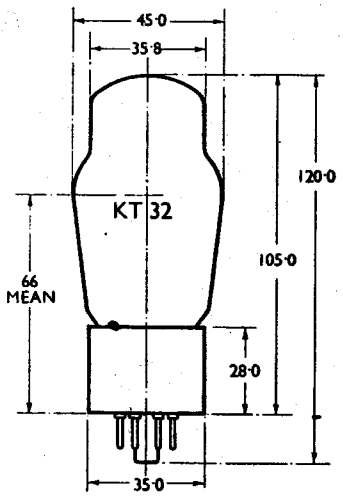
RATINGS

Heater Current ...	0·3	amp
Heater Voltage ...	26·0	volts
Anode Voltage ...	135	max. volts
Screen Voltage ...	135	max. volts
Anode Dissipation	10	max. watts
Mutual Conductance, at Va = Vg_2 = 110 ; Ia = 50 mA ...	9·0	mA/V

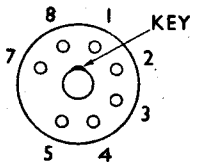
Capacitances :

Grid to all other electrodes ...	20·0	approx. pF
Anode to all other electrodes ...	12·0	,, ,,
Anode to control grid ...	1·2	,, ,,

DIMENSIONS



BASE



View looking on underside of base.

7-PIN OCTAL

Pin 1 : Not connected
2 : Heater
3 : Anode
4 : Screen Grid
5 : Control Grid
6 : Omitted
7 : Heater
8 : Cathode

All dimensions are in mm. and are the maximum except where otherwise stated.

OPERATING CONDITIONS

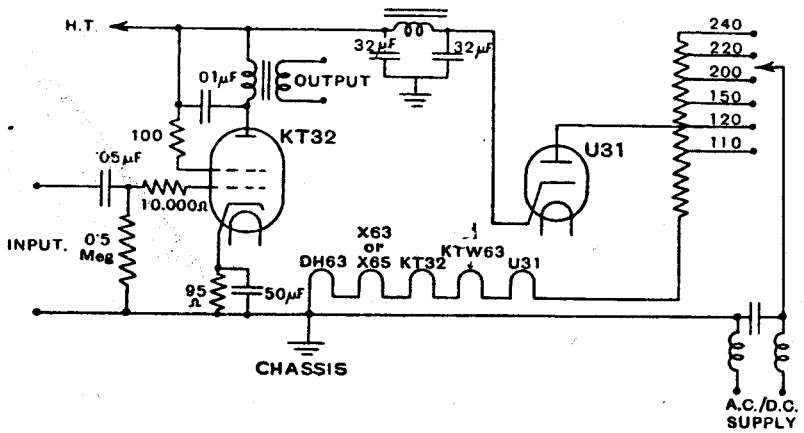
	Single Valve Class A			Two Valves in Class AB1 push-pull	
Anode Voltage	135	110	80	135	volts
Screen Voltage	135	110	80	135	volts
Anode Current	75	60	44	100*	mA
Screen Current	5	4	4	8*	mA
Grid Voltage	−7·6	−6·0	−4·5	−10	volts
Cathode Bias Resistor	95	95	95	200†	ohms
Anode Load Resistance ...	1,300	1,600	1,600	2,500‡	ohms
Input Signal Voltage	7·1	5·6	4·2	19·7	peak volts
Distortion	11	6·5	9·5	5	%
Power Output	3·5	2·3	1·2	7·5	watts

* Per pair. † Per valve. ‡ Anode to anode.

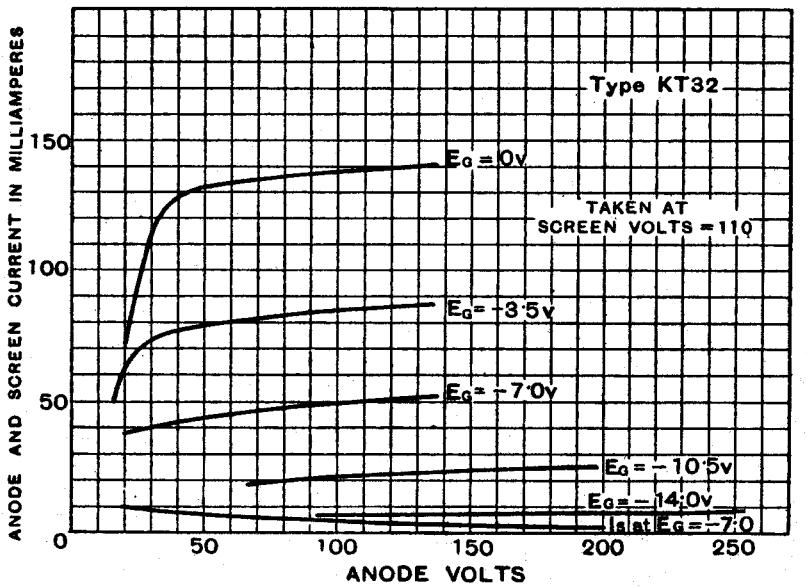
TYPE KT32

OPERATING CONDITIONS (cont.)

To prevent instability a screen stopping resistance of 100 ohms should be used ; a grid stopping resistance of 10,000 ohms or more may be used in addition.



Typical circuit for KT32 output tetrode, showing heater wiring system for DC/AC receiver, suitable for any supply from 100 to 250 volts. If the supply voltage range is 200—250, the U31 anode tap should be taken to 150 volt tapping on resistance shown.



CHARACTERISTIC CURVES OF AVERAGE VALVE.