

W61



W61 VARIABLE-MU SCREENED PENTODE

DESCRIPTION

Type W61 is an indirectly heated variable-mu screened pentode suitable for use in radio frequency amplifiers. The W61 is a direct replacement of the earlier valve KTW61.

The valve has a high mutual conductance/total cathode current ratio resulting in a high signal-to-noise ratio, and also is capable of a high stage gain.

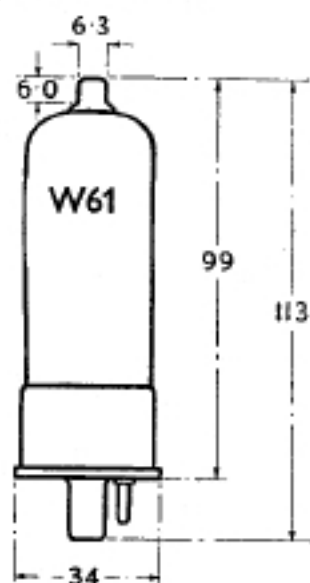
RATINGS

Heater Voltage	...	...	...	...	...	6.3	volts
Heater Current	...	...	...	...	...	0.3	approx. amp
Heater/Cathode Voltage	...	...	...	...	...	150	max. volts
Anode Voltage	...	...	...	...	...	250	max. volts
Screen Voltage	...	...	...	...	...	100	max. volts
Mutual Conductance at $V_{g1} -3$	...	...	...	...	...	2.9	mA/V
at $V_{g2} -25$	...	...	...	...	...	0.02	mA/V
Anode Impedance	...	...	...	...	...	0.6	megohm

Capacitances (taken on metallised valve) :

Control Grid to all other electrodes	...	...	...	...	...	7	approx. pF
Anode to all other electrodes	...	...	...	...	...	9.5	" "
Control Grid to all other electrodes	...	...	...	...	...	0.002	" "

DIMENSIONS



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

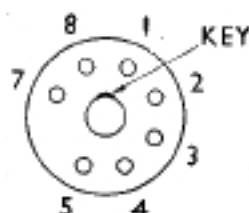
BASE

7-PIN OCTAL

Pin 1: Base Shell (Metallising)

- 2: Heater
- 3: Anode
- 4: Screen Grid
- 5: Suppressor Grid
- 6: Omitted
- 7: Heater
- 8: Cathode

Top Cap: Control Grid



View looking on underside of base.

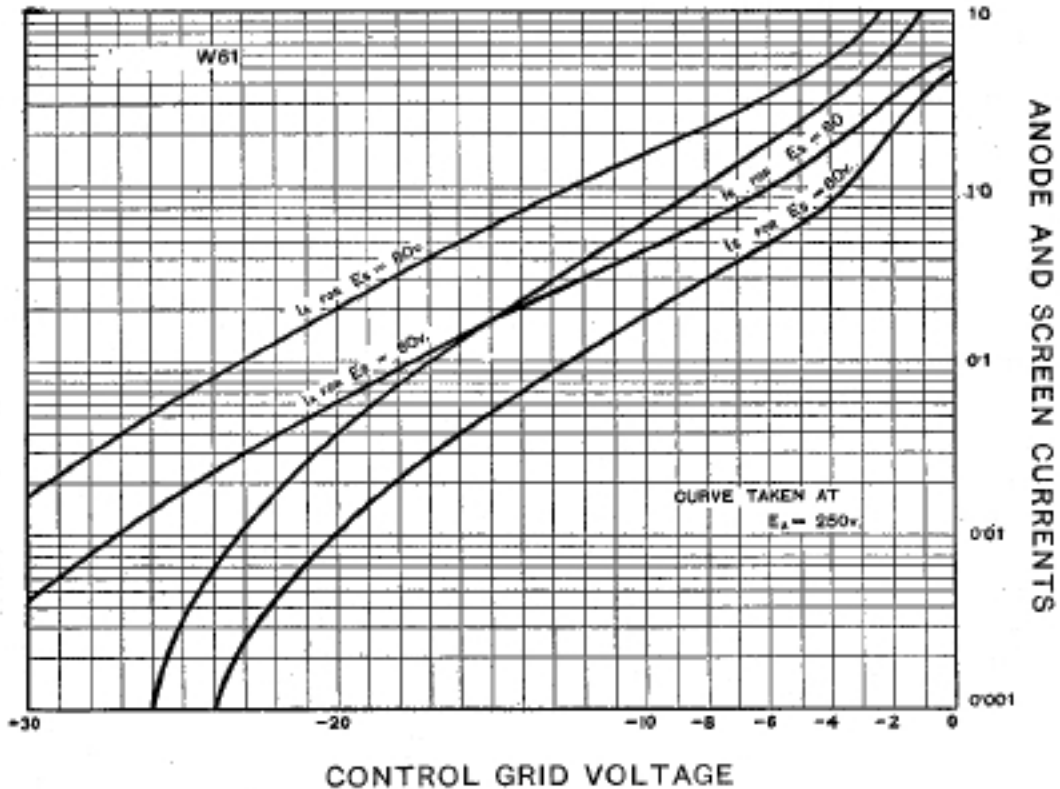
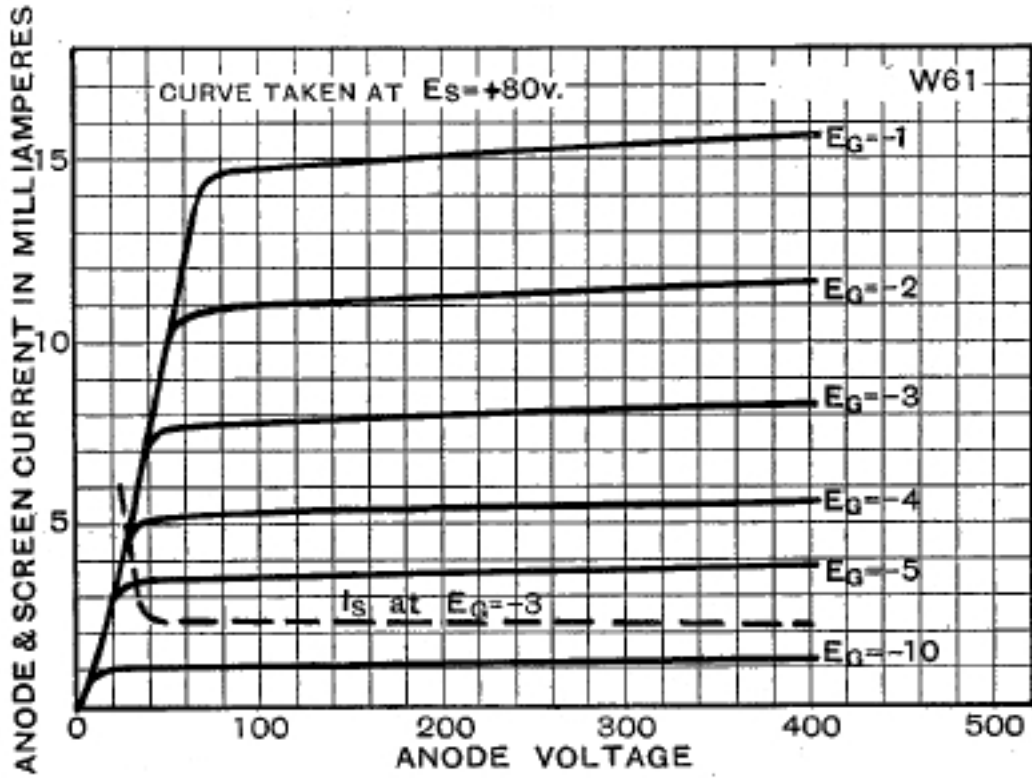
Type W61 is supplied plain or metallised.

OPERATING CONDITIONS

Anode Voltage	...	250	250	250	volts
Screen Voltage	...	100	80	80	volts
Control Grid Voltage	...	-3	-3	-25	volts
Anode Current (Average)	...	10	8.5	0.5	mA
Screen Current (Average)	...		2.8		mA
Fixed Bias Resistor	...	250	300		ohms

For constant screen voltage conditions a potentiometer network should be employed. The valve may be operated with series screen feed to obtain a higher output voltage, if desired. In this case a series screen dropping resistance of 77,000 ohms may be used. The total effective resistance between the grid and cathode must not exceed 4 megohms.

TYPE W61



CHARACTERISTIC CURVES OF AVERAGE VALVE.