



VALVES

MADE IN ENGLAND

KTW61 VARIABLE-MU SCREENED TETRODE

DESCRIPTION

Type KTW61 is an indirectly heated variable-mu screened tetrode with pentode characteristics, suitable for use in radio frequency amplifiers.

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

RATINGS

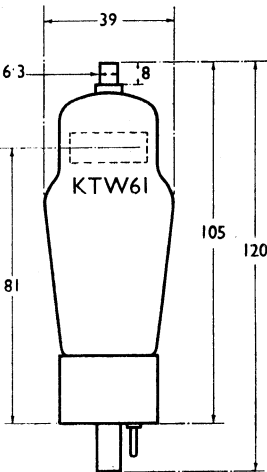
Heater Voltage	6.3	
Heater Current	0.3	amp. approx.
Anode Voltage	250	max.
Screen Voltage	100	max.
Mutual Conductance*	2.9	mA/volt
Anode Impedance*	0.45	megohms
Input Impedance at 30 mc/sec.*	12,000	ohms

*measured at $V_a = 250$; $V_{g2} = 80$; $V_{g1} = -3$

Capacitances (taken on metallised valve type KTW61M) :

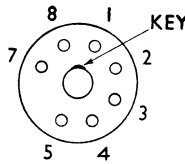
Grid to All	7.5	pF approx.
Anode to All	8.0	" "
Anode to Grid	0.0025	" "

DIMENSIONS



All dimensions are in mm and are max. except where otherwise stated.

BASE



View looking on underside of base.

7-PIN "OCTAL"

Pin 1: Metallising in type KTW61M

- 2: Heater
- 3: Anode
- 4: Screen Grid, g_2
- 5: Suppressor Plates
- 6: Omitted
- 7: Heater
- 8: Cathode

Top Cap: Control Grid, g_1

Type KTW61 is supplied with unmetallised bulb. KTW61M (metallised bulb) is available to order only.

OPERATING CONDITIONS

Anode Voltage	250
Screen Voltage	80
Control Grid Voltage	-3
Anode Current	8.0 mA.
Screen Current... ..	2.3 mA.
Fixed Bias Resistance	300 ohms.

THE GENERAL ELECTRIC CO., LTD.,
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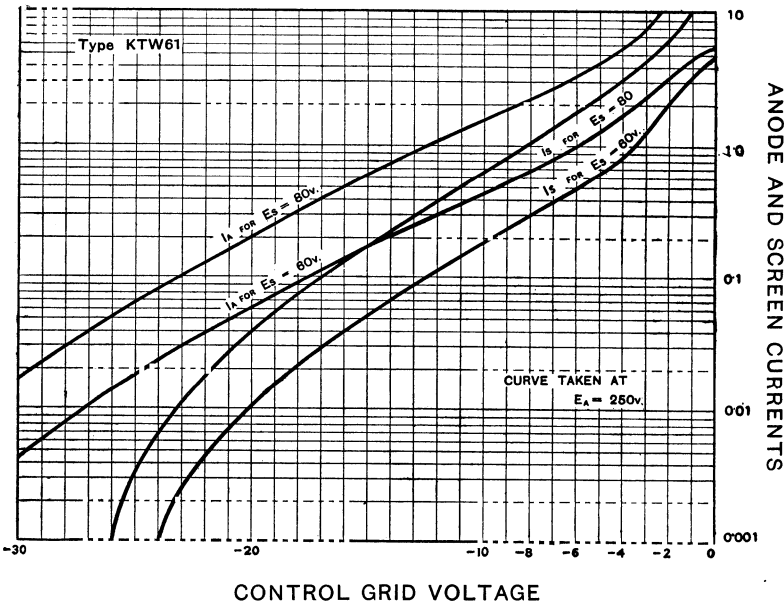
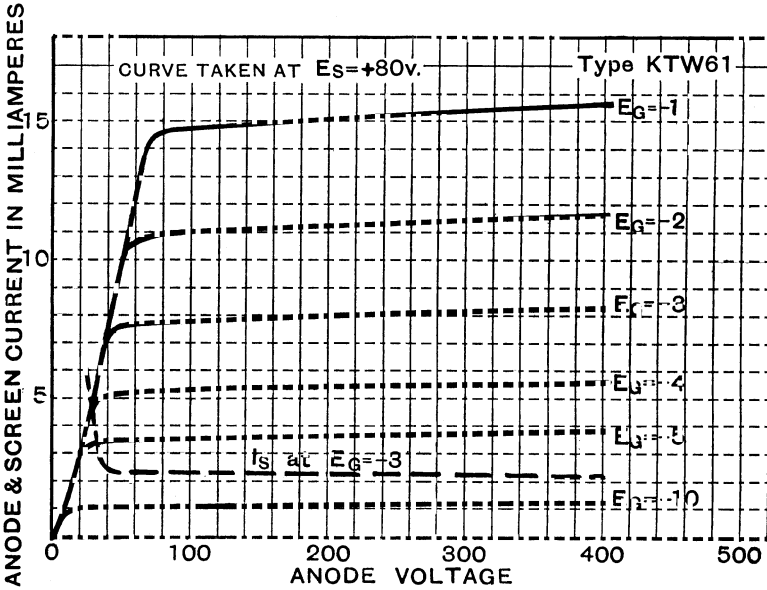
TYPE KTW61

OPERATING CONDITIONS (cont.)

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 75,000 ohms may be used.

The total effective resistance between the grid and cathode must not exceed 4 megohms.

A screening can is essential and to obtain full advantage of the potential stage gain the length of the can should be 75 m/m, extending from the bottom of the bakelite base to the centre of the earthed screen inside the dome of the bulb. The diameter should be about 42.5 m/m and the can should fit closely round the dome.



CHARACTERISTIC CURVES OF AVERAGE VALVE.