



KTW63 VARIABLE-MU SCREENED TETRODE

DESCRIPTION

Type KTW63 is an indirectly heated variable-mu screened tetrode suitable for use as an R.F. amplifier. The variable-mu characteristics enable control of gain to be effected by variation of grid bias voltage, and the operating grid base is adequate to allow for full A.G.C. to be applied without modulation distortion on normal signal inputs.

Type KTW63 is interchangeable with American types 6K7G and 6U7G.

RATINGS

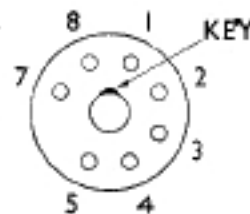
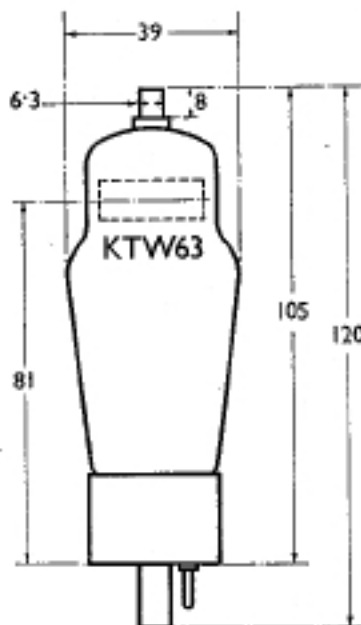
Heater Voltage	...	...	...	...	...	6.3	volts
Heater Current	...	...	...	...	...	0.3	approx. amp
Anode Voltage	...	...	...	...	...	250	max. volts
Screen Voltage	...	...	...	...	...	125	max. volts
Mutual Conductance*	...	...	...	...	...	1.5	mA/V

*measured at $V_a = 250$, $V_{g_2} = 100$, $V_{g_1} = -3$.

Capacitances :

Grid to all other electrodes	...	...	...	...	...	4.5	approx. pF
Anode to all other electrodes	...	...	...	...	...	7.5	" "
Anode to Grid	...	...	...	...	...	0.005	" "

DIMENSIONS



View looking on underside of base.

BASE

7 PIN "OCTAL"

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

Top Cap: Control Grid

Supplied with plain bulb only.

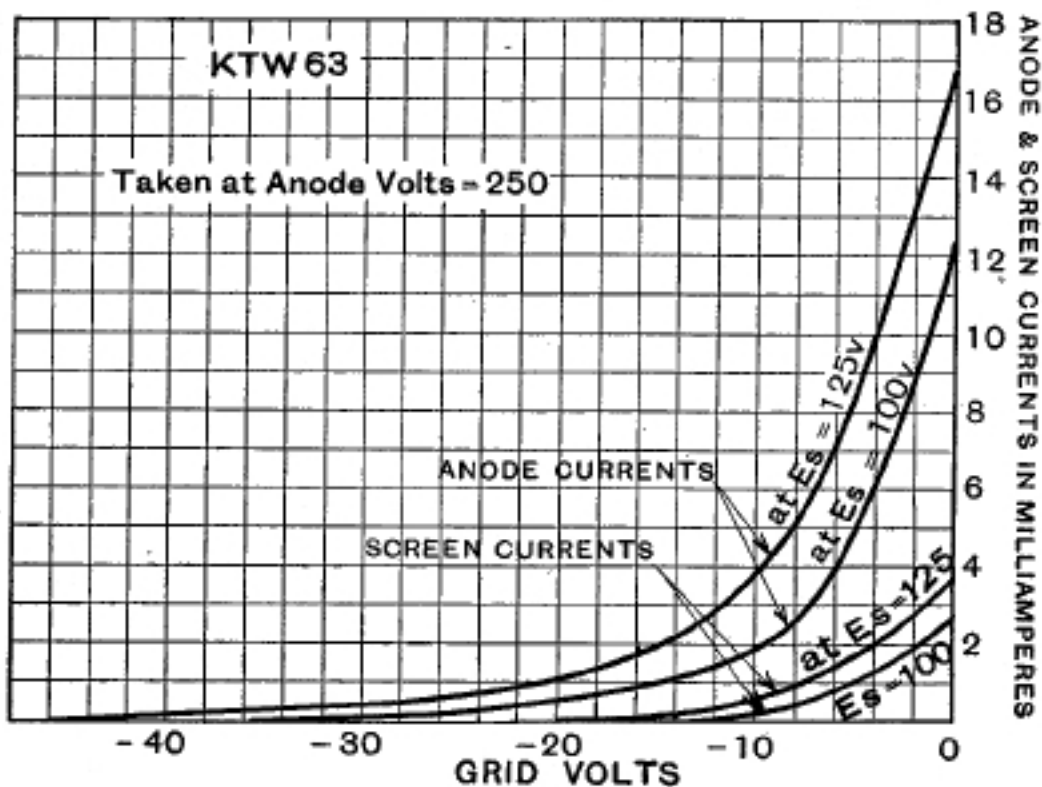
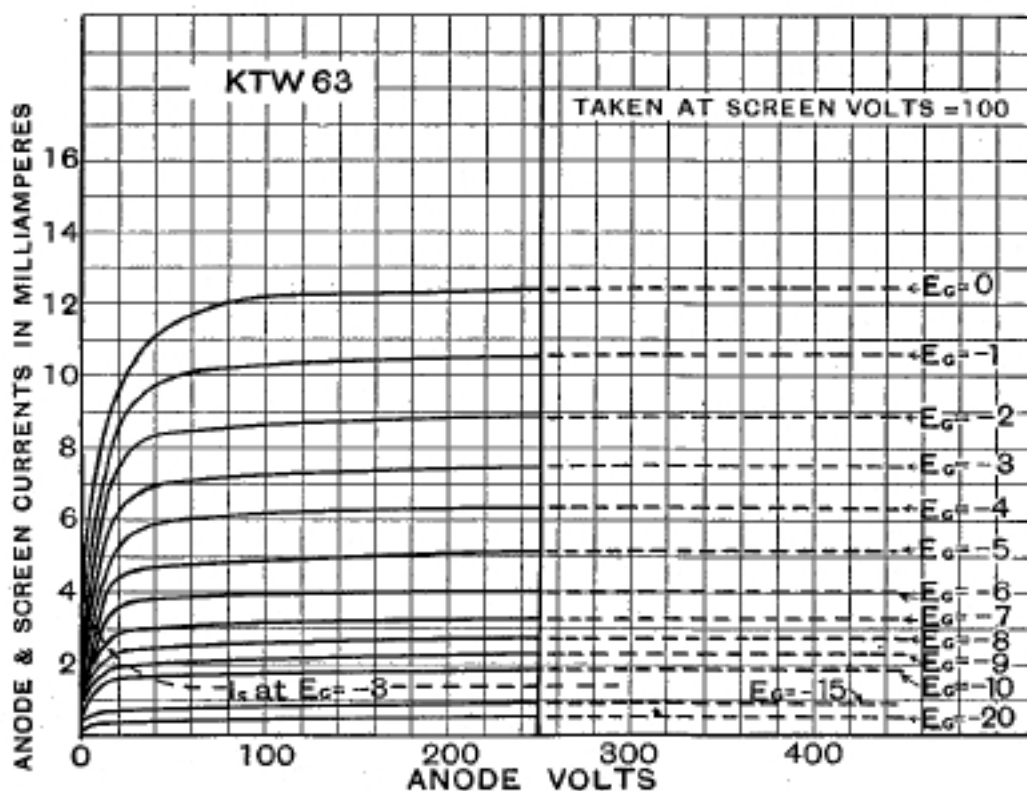
All dimensions are in mm. and are the maximum except where otherwise stated.

OPERATING CONDITIONS

Anode Voltage	...	...	...	250	volts
Screen Voltage	...	...	...	100	volts
Anode Current	...	...	...	7.6	mA
Screen Current	...	...	...	1.5	mA
Grid Bias Voltage	...	...	...	-3	volts
Bias Resistor	...	...	...	300	ohms

A potentiometer network may be employed in order to maintain the screen voltage sensibly constant. The total effective resistance between the grid and cathode must not exceed 4 megohms. The valve is not metallised, but in cases where screening is essential a can with the following dimensions may be used; the suggested length of the can is 75 mm., 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 mm. These dimensions should be closely followed in order to take full advantage of the low value of anode to grid capacitance.

TYPE KTW63



CHARACTERISTIC CURVES OF AVERAGE VALVE.