



# TYPE KT61

## OPERATING CONDITIONS

Single Valve, Class A					Tetrode connected		Triode connected	
Anode Voltage	...	...	...	...	250	250	volts	
Screen Voltage	...	...	...	...	250		volts	
Anode Current (no load)	...	...	...	...	40	30	mA	
Screen Current (no load)	...	...	...	...	7.5		mA	
Grid Bias Voltage	...	...	...	...	-4.4	-6	volts	
Bias Resistor	...	...	...	...	90	200	ohms	
Anode Load	...	...	...	...	6,000	5,000	ohms	
Maximum Input Signal Voltage, peak	...	...	...	...	4.3	5.5	volts	
Power Output	...	...	...	...	4.3	0.7	watts	
Distortion	...	...	...	...	8	Up to 5	%	

### Single Valve Class A Amplifier

Due to the high sensitivity of type KT61, degeneration (feedback) can be incorporated. A typical circuit is given.

The effect of a small variable capacitor in parallel with the feedback resistor enables a range of tone control to be obtained if desired, increased capacitance giving a cut of the higher frequencies.

### Two Valves in Class AB1 Push-Pull Amplifier. Tetrode Connection

Anode Voltage	...	...	...	...	275	volts
Screen Voltage	...	...	...	...	275	volts
Anode Current average (per pair)	...	...	...	...	72	mA
Screen Current average (per pair)	...	...	...	...	12	mA
Grid Bias Voltage	...	...	...	...	-6.7	approx. volts
Input Voltage (grid to grid)	...	...	...	...	16	peak volts
Load Resistance (anode-to-anode)	...	...	...	...	10,000	ohms
Common Bias Resistor	...	...	...	...	80	ohms
Power Output	...	...	...	...	11.5	approx. watts
Total Distortion	...	...	...	...	6.5	%

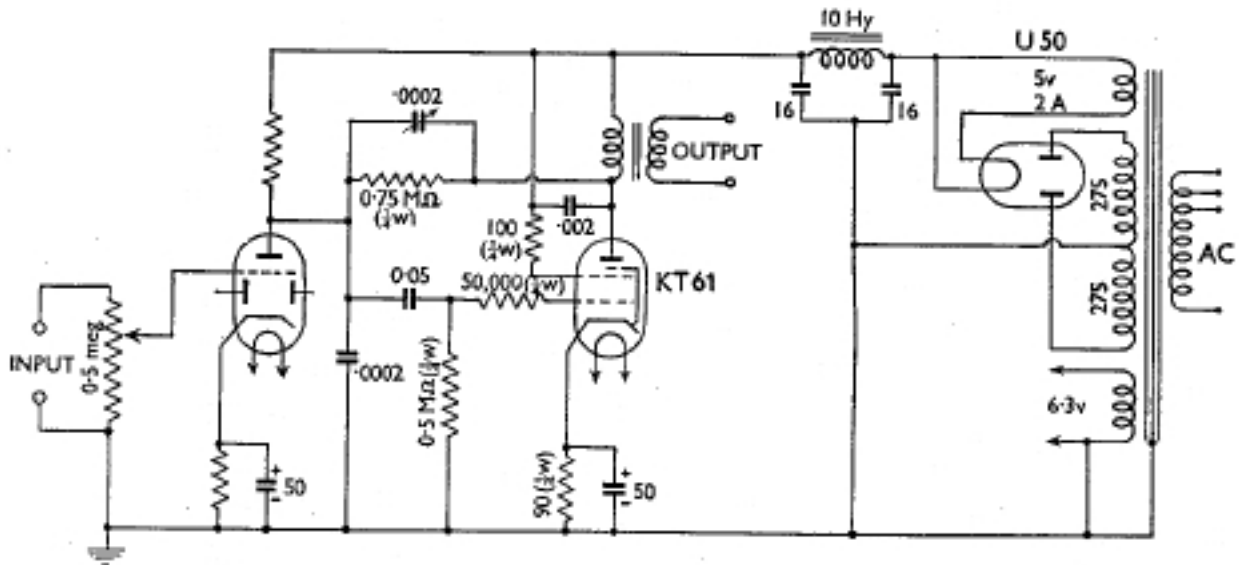
### Two Valves in Class AB1 Push-Pull. Triode Connected

Anode and Screen Voltage	...	...	...	...	350	volts
Anode and Screen Current (per pair, no load)	...	...	...	...	63	mA
Anode and Screen Current (per pair, full load)	...	...	...	...	73	mA
Load Resistance (anode to anode)	...	...	...	...	6,000	ohms
Common Bias Resistor...	...	...	...	...	150	ohms
Input Voltage (grid to grid)	...	...	...	...	23	peak volts
Power Output	...	...	...	...	6	watts
Distortion	...	...	...	...	2	%

The common bias resistor should be shunted with a 50  $\mu$ F capacitor.

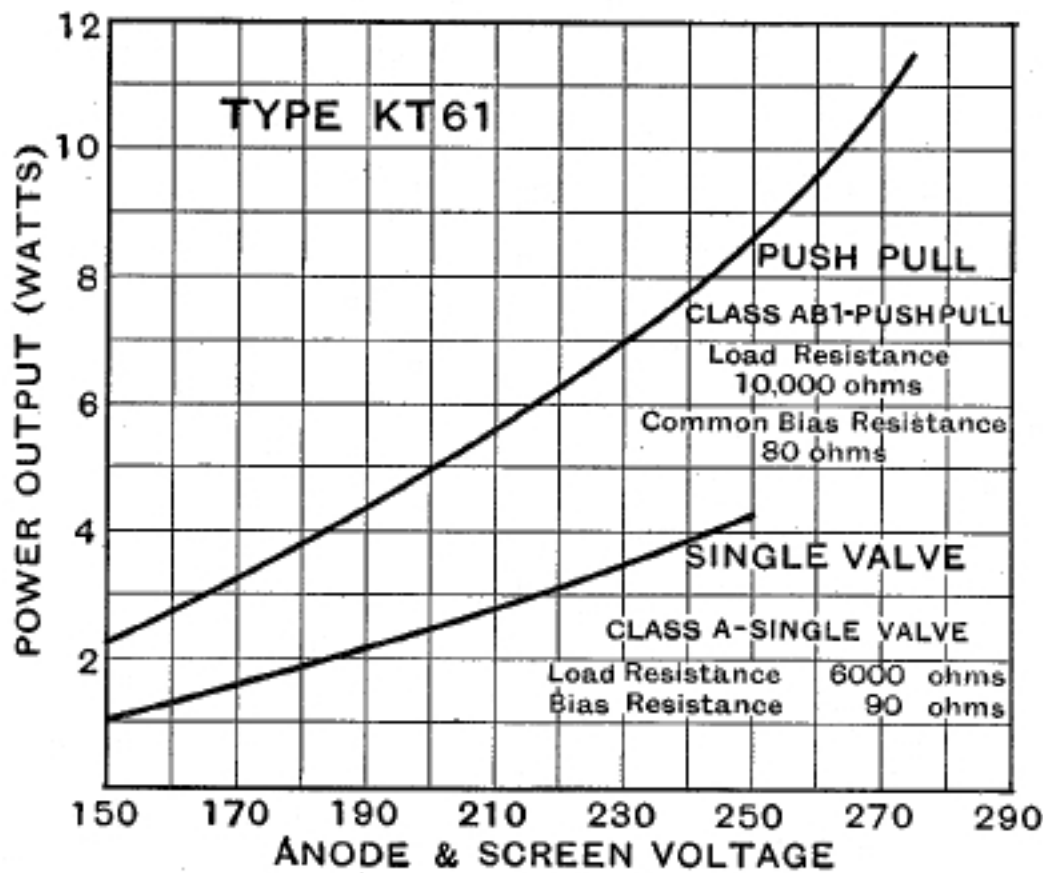
The screen grids should be joined to the anodes via 100 ohm resistors, and grid stopper resistors of 10,000 ohms should be used in order to suppress parasitic oscillation.

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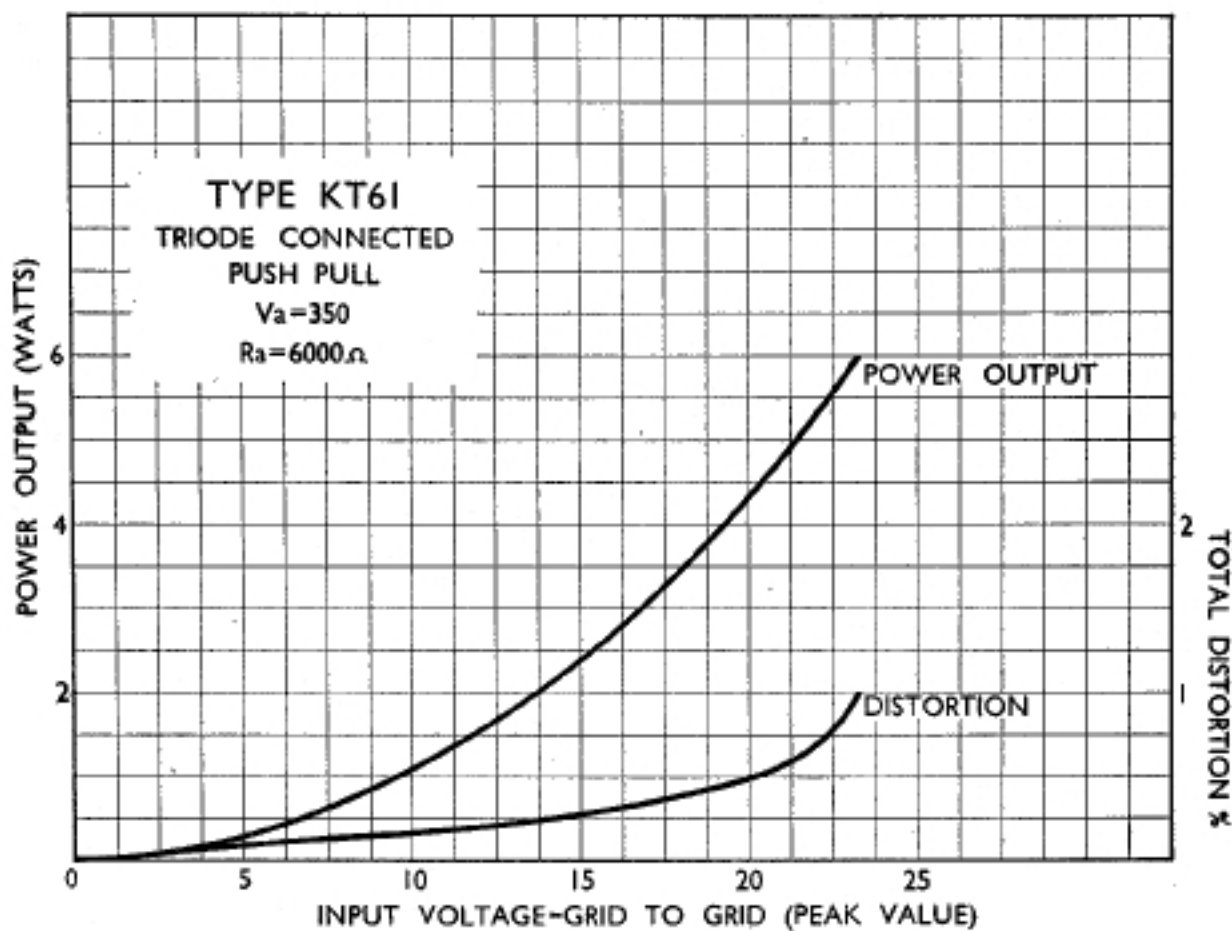
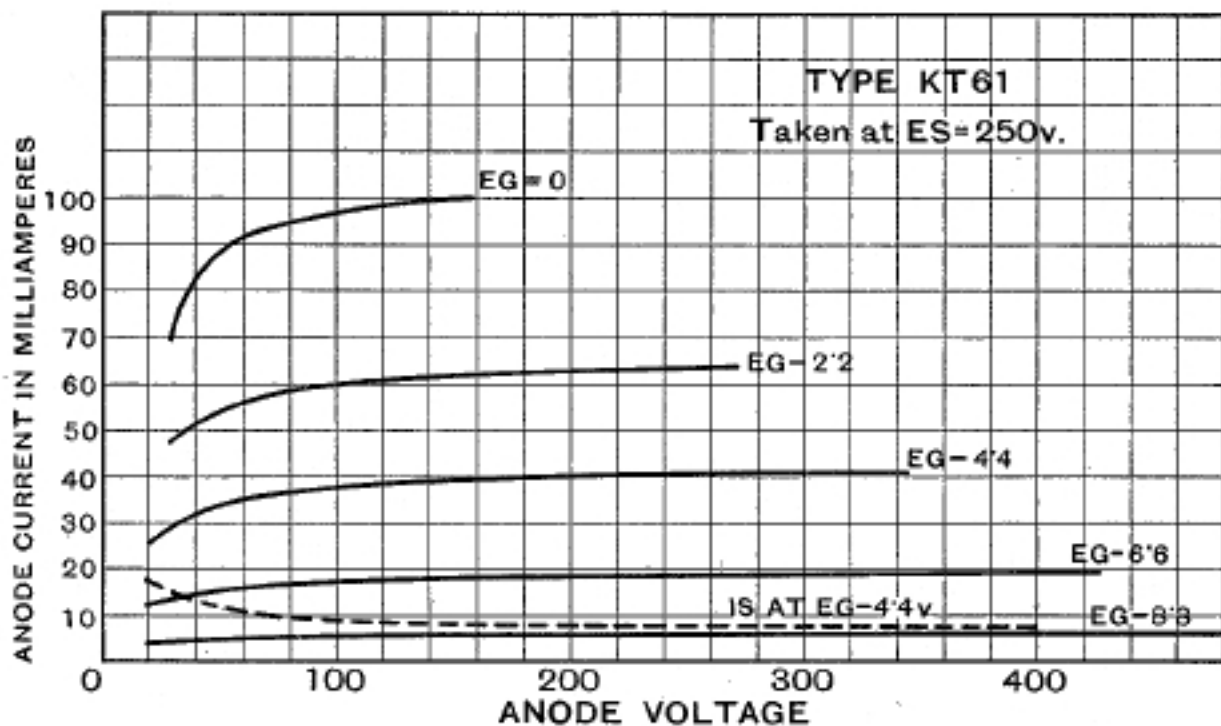
SINGLE VALVE CLASS A AMPLIFIER CIRCUIT

Illustrating method of applying negative feedback and driving the KT61 with DH63, with 220K ohms anode load resistance.



CHARACTERISTIC CURVES OF AVERAGE VALVE.

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