Osram
VALVES

DA250 POWER TRIODE

DESCRIPTION

Type DA250 is a directly heated triode, suitable for use in the output stage of an amplifier.

The valve is designed primarily to operate both in negative and positive drive Class "AB" push-pull circuits. Greatly increased power is obtainable in the positive drive condition with suitable circuit arrangements and precautions.

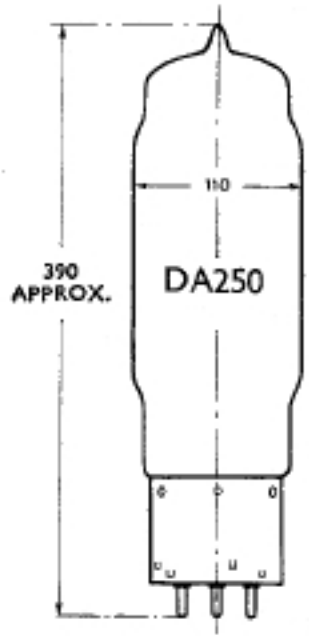
RATINGS

Filament Voltage ...	10	volts	
Filament Current ...	2·0	approx. amps	
Anode Voltage ...	2,500	max. volts	
Anode Dissipation ...	250	max. watts	
Amplification Factor (measured at Va=2,500 ; Ia=100) ...	16		
Impedance (measured at Va=2,500 ; Ia=100) ...	2,300	ohms	
Mutual Conductance (measured at Va=2,500 ; Ia=100) ...	7·0	mA/V	

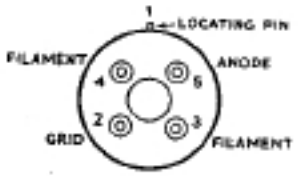
Capacitances :

Grid to Filament ...	21	approx. pF	
Anode to Filament ...	6·0	"	"
Anode to Grid ...	41	"	"

DIMENSIONS



BASE



View looking on underside of base.

Special large 4-pin B.C.

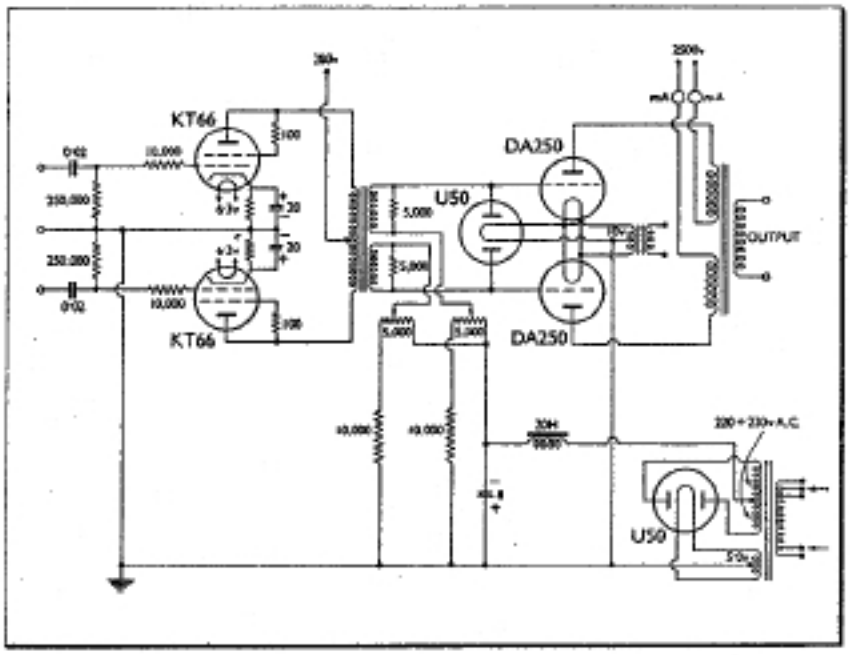
All dimensions are in mm. and are approximate except where otherwise stated.

OPERATING CONDITIONS

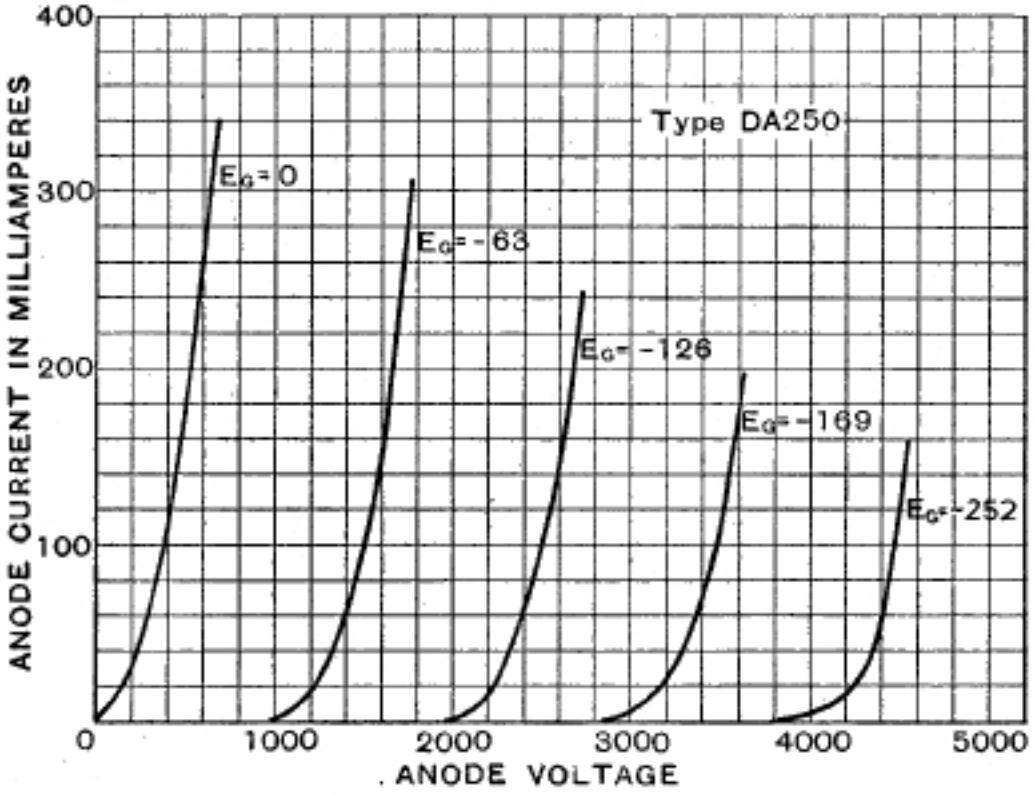
Per pair of valves unless otherwise stated

	Class A	Class AB1 push pull	Class AB2 push pull	
D.C. Anode Voltage ...	2500	2500	2500	volts
D.C. Anode Current (max. signal) ...	—	360	500	mA
D.C. Anode Current (no signal) ...	100	100	100	mA
D.C. Anode Dissipation (max. signal, per valve) ...	—	250	190	watts
D.C. Anode Dissipation (no signal, per valve) ...	—	135	135	watts
D.C. Control Grid Voltage ...	−126	−130/−160	−130/−160	volts
Grid Current ...	—	—	20	mA
Cathode Bias Resistor ...	1260	—	—	ohms
Signal Input, peak ...	—	130/160	180/220	volts
Anode Load Resistance ...	17,500	12,000	12,000	ohms
Power Output ...	90	400	800	watts
Distortion ...	—	up to 5	up to 6	%

TYPE DA250



Typical circuit for Class AB1 push pull with DA250 valves. The U50 is included in order to prevent the "Trigger Effect" due to the reversal of grid current during periods of excess input voltage.



CHARACTERISTIC CURVES OF AVERAGE VALVE.