

## Z66 SCREENED PENTODE

### DESCRIPTION

Type Z66 is an indirectly heated high slope high frequency pentode.

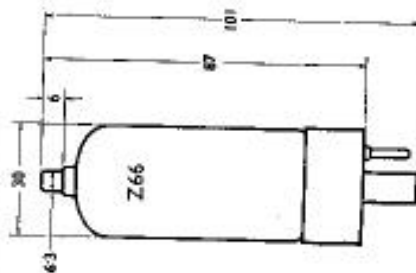
### RATINGS

Heater Voltage	...	...	...	6-3	volts
Heater Current	...	...	...	0-63	approx. amp
Anode Voltage	...	...	Pentode connected	250	max. volts
Anode Dissipation	...	...	3	4	max. watts
Screen Voltage	...	...	250	1	max. volts
Screen Dissipation	...	...	1	9-0*	max. watt
Mutual Conductance	...	...	8-5†	7-5‡	mA/V
Operating Frequency	...	...	100		mA/V
† measured at $V_a=200$ ; $V_{G_2}=200$ ; $I_a=10-9$ mA.					
‡ measured at $V_a=250$ ; $V_{G_2}=200$ ; $I_a=8-0$ mA.					
* measured at $V_a=200$ ; $I_a=10$ mA.					

### Capacitances (taken with close-fitting shield):

Control Grid to all other electrodes	...	...	11-0	approx. pF
Anode to all other electrodes	...	...	5-5	" "
Anode to Control Grid	...	...	0-006	" "

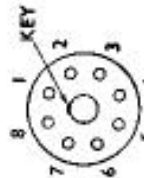
### DIMENSIONS



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

The effective external control-grid-to-cathode resistance should be kept as low as possible and should not exceed 1 megohm under the above operating conditions. Higher resistance values may be used at an increased value of grid bias.

### BASE



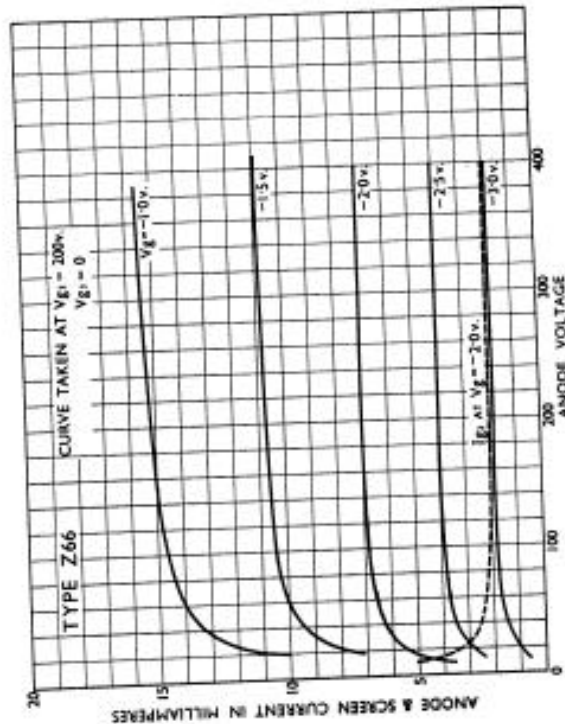
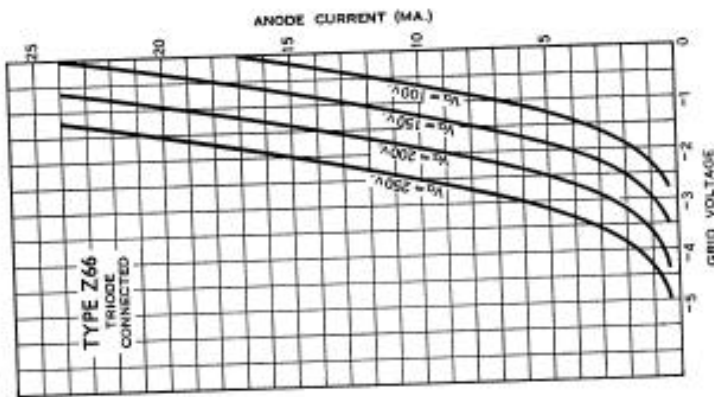
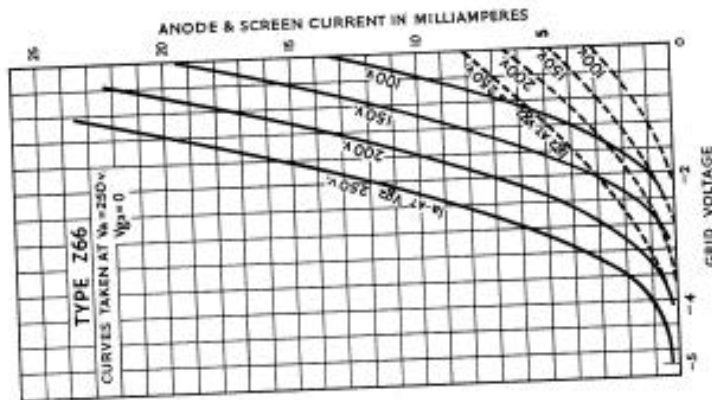
### 8-PIN OCTAL

- Pin 1: Not connected
  - 2: Heater
  - 3: Anode
  - 4: Screen Grid,  $G_2$
  - 5: Suppressor Grid,  $G_3$  and Internal Shield
  - 6: Not connected
  - 7: Heater
  - 8: Cathode
- Top Cap: Control Grid,  $G_1$ .

### OPERATING CONDITIONS

Class A Amplifier	Pentode Connected	Triode Connected
Anode Voltage	200	200
Anode Current	8-0	14-2
Supp. Grid Voltage	0	volts
Screen Grid Voltage	200	volts
Screen Current	2-0	mA
Control Grid Voltage	-1-85	-1-42
Cathode Bias Resistor	180	100
Impedance	1-5	0-0075
Amplification Factor	...	75

## TYPE Z66



CHARACTERISTIC CURVES OF AVERAGE VALVE.