R1255

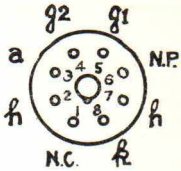
# FERRANTI

## BEAM TETRODES

Types 35L6G and 35L6GT are indirectly heated beam tetrodes for use in the output stages of equipments designed for AC/DC operation. These valves are capable of giving relatively high power outputs at the low voltages available in such equipments.

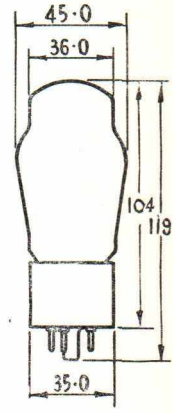
**35L6G**

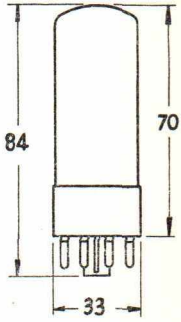
**35L6GT**




**Base Connections**

**Underside View of Base**




All dimensions shown are in millimetres (max.).

PHYSICAL DETAILS.

35L6G.

| | |
|---|---|
| Base ... ... ... ... | International Octal. |
| Max. Overall Length ... ... | 119 mm. ($4\frac{11}{16}$in.). |
| Max. Seated Height ... ... | 104 mm. ($4\frac{3}{32}$in.). |
| Max. Diameter (Bulb) ... ... | 45 mm. ($1\frac{25}{32}$in.). |
| Mounting Position ... ... | Any. |

35L6GT.

| | |
|---|---|
| Base ... ... ... ... | International Octal. |
| Max. Overall Length ... ... | 84 mm. ($3\frac{5}{16}$in.). |
| Max. Seated Height ... ... | 70 mm. ($2\frac{3}{4}$in.). |
| Max. Diameter (Base) ... ... | 33 mm. ($1\frac{5}{16}$in.). |
| Mounting Position ... ... | Any. |

BASE CONNECTIONS.

| | |
|---|---|
| Pin 1—No Connection. | Pin 5—Control Grid ($g_1$). |
| Pin 2—Heater. | Pin 6—No Pin. |
| Pin 3—Anode. | Pin 7—Heater. |
| Pin 4—Screen Grid ($g_2$). | Pin 8—Cathode. |

HEATER.

| | |
|---|---|
| Heater Current ... ... ... | 0·15 amp. |
| Heater Voltage ... ... | 35·0 volts. |

RATINGS.

| | |
|---|---|
| Max. Anode Voltage ... ... | 200 volts. |
| Max. Screen Voltage ... ... | 110 volts. |
| Max. Anode Dissipation ... | 8·5 watts. |
| Max. Screen Dissipation ... | 1·0 watt. |
| Max. Heater-Cathode Voltage | 100 volts DC. |

TYPICAL OPERATION.

Single Valve Class $A_1$ Amplifier.

| | | | |
|---|---|---|---|
| Anode Voltage ... ... | 110 | 200 | volts. |
| Screen Voltage ... ... | 110 | 110 | volts. |
| Control Grid Voltage ... | –7·5 | –8·0 | volts. |
| Anode Current (Zero Signal) | 40 | 41 | mA. |
| Anode Current (Max. Signal) | 41 | 44 | mA. |
| Screen Current (Zero Signal) | 3 | 2 | mA. |
| Screen Current (Max. Signal) | 7 | 7 | mA. |
| Anode Impedance (Approx.) | 14000 | 40000 | ohms. |
| Mutual Conductance ... | 5·8 | 5·9 | mA/V. |
| Cathode Bias Resistor ... | 170 | 185 | ohms. |
| Anode Load ... ... | 2500 | 4500 | ohms. |
| Power Output ... ... | 1·5 | 3·3 | watts. |
| Total Harmonic Distortion | 10 | 10 | % |

CAPACITANCES.

| | 35L6G | 35L6GT | |
|---|---|---|---|
| $C_{in}$ ... ... ... | 13·5 | 13·0 | pF. |
| $C_{out}$ ... ... ... | 8·0 | 9·0 | pF. |
| $C_{a-g}$ ... ... ... | 1·0 | 1·0 | pF. |

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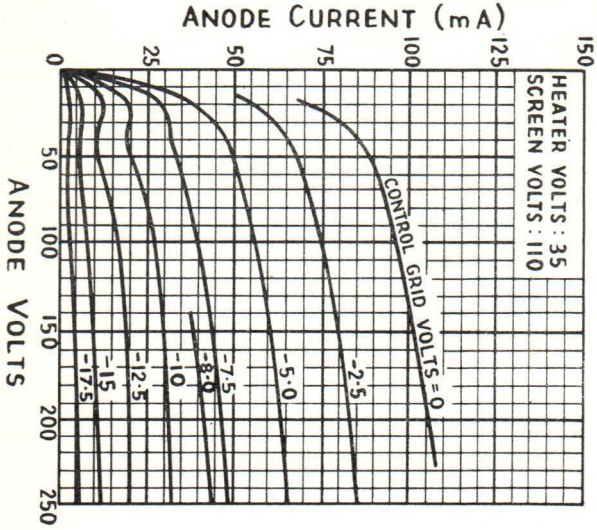
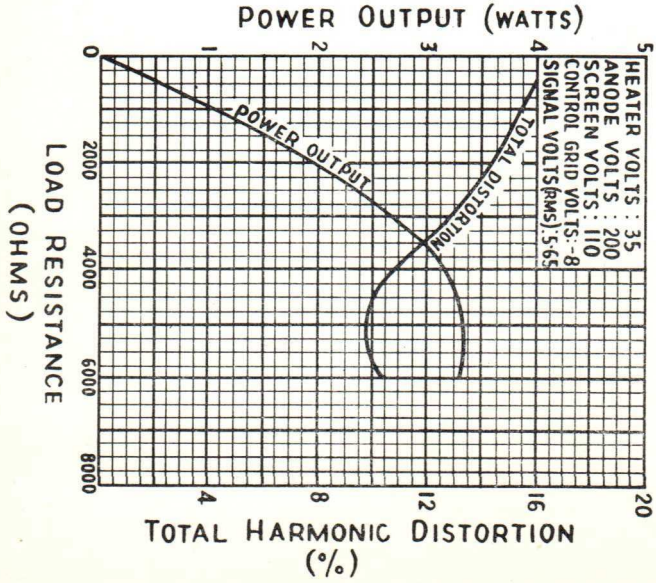
**35L6G**

**35L6GT**