

FERRANTI

COLD CATHODE TRIODE

A gas-filled cold cathode Triode of miniature dimensions, designed for use as a Relay Valve.

PHYSICAL DETAILS.

Base	...	...	...	B7G.
Max. diameter (glass envelope)	...	...	...	19 mm. ($\frac{3}{4}$ in.).
Max. seated height	...	...	...	48 mm. ($1\frac{7}{8}$ in.).
Max. overall length	...	...	...	54 mm. ($2\frac{1}{8}$ in.).
Mounting position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Anode.	Pin 4—Trigger.
Pin 2—Internal Connection.	Pin 5—Internal Connection.
Pin 3—Cathode.	Pin 6—Internal Connection.
Pin 7—Cathode.	

CHARACTERISTICS.

Nominal Trigger Voltage	...	80 volts.
Anode-Cathode Gap Volt Drop	...	75 volts (approx.).
Trigger-Cathode Gap Volt Drop	...	70 volts (approx.).
‡§Min. Transfer Current	...	10 μ A.
Recovery Time	...	800 μ Secs. (approx.).

RATINGS.

Max. Anode Voltage	...	150 volts DC.
Max. Peak Anode Current	...	30 mA.
Max. Mean Anode Current	...	7.5 mA.
Max. Trigger Current	...	500 μ A.

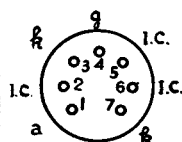
TYPICAL OPERATING CONDITIONS.

*Anode Voltage	...	135 volts DC.
†Static Bias (positive)	...	55 volts DC.
Transfer Current	...	4 μ A.
†Trigger Pulse Amplitude	...	50 volts.

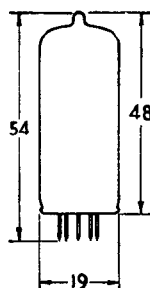
‡At $V_a = 135$.

§10 microamperes is the minimum current to ensure interchangeability and reliable operation during life, but transfer currents on individual valves may be considerably lower.

*The anode supply switch should be shunted by a resistor of approximately 30 megohms to prevent surge effects which would cause the valve to fire on switching.



**Base
Connections
Underside View
of Base**



All dimensions shown are in millimetres (max.).





GK10

