

6504A

G.E.C.

CATHODE RAY TUBES

6504A TELEVISION TUBE

DESCRIPTION

The G.E.C. type 6504A 9" diameter cathode ray tube is intended for high quality television reception, and is magnetically focussed and deflected. The screen fluorescence is white and the tube is indirectly heated.

The outside of the bulb is partially covered with a conductive coating which can be used in conjunction with the internal coating to form a capacitance sufficiently large to use as the reservoir capacitor in an R.F. or fly-back E.H.T. system.

The fluorescent screen is backed with a very thin metallic coating which considerably increases the life of the tube and at the same time gives better picture contrast under normal conditions of use.

RATINGS

Heater Voltage ...	6.3	volts
Heater Current ...	0.5	approx. amp
Heater/Cathode Voltage ...	150	max. volts
Anode Voltage ...	7000	max. volts
Anode Voltage ...	5000	min. volts
Nominal Modulator Voltage for Cut-off ...	- Anode Voltage/150	approx. volts
Modulator Voltage ...	-100	max. volts
Cathode Current ...	150	max. μ A
Modulator/Cathode Resistance ...	1.0	max. megohm
Neck Diameter ...	35.0	max. mm
Neck Diameter ...	33.5	min. mm
Picture Diagonal ...	208	max. mm

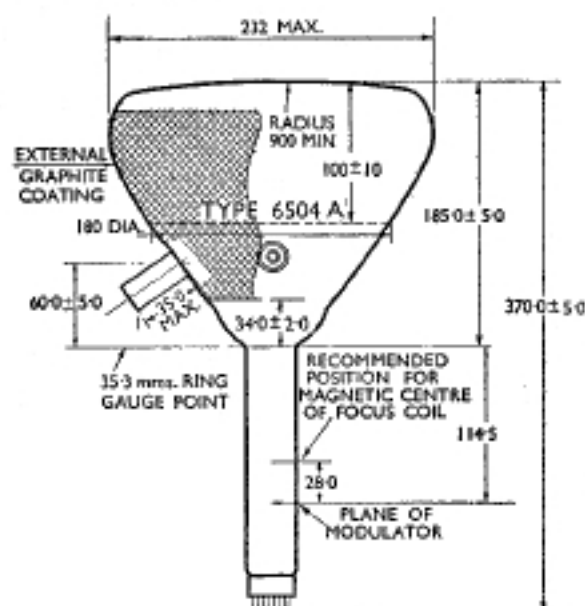
CAPACITANCE

Modulator to all other electrodes ...	15	max. pF
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MOUNTING POSITION

Any

DIMENSIONS



BASE

INTERNATIONAL 8-PIN OCTAL

- Pin 1: I.C.
- 2: Heater
- 3: I.C.
- 4: I.C.
- 5: Modulator
- 6: I.C.
- 7: Heater
- 8: Cathode

Side Contact: Anode (flush type)

I.C. indicates that no external connection should be made to this pin.

The neck diameter is gauged by a tubular gauge of length 50 mm, and internal diameter 35.3 mm.

All dimensions are in mm.

TYPICAL OPERATING CONDITIONS

Anode Voltage ...	7000	volts
Modulator Cut-off Voltage ...	-47	approx. volts
Mean Signal input to Modulator ...	20	peak volts
Picture Size ...	207 x 155	mm
Picture Brightness ...	10	e.f.c.

TYPE 6504A

PRECAUTIONS IN USE

The attention of the user is drawn to the CODE OF PRACTICE FOR USE OF CATHODE RAY TUBES IN EQUIPMENT, B.S. 1147, 1943, obtainable from the British Standards Institution, 28 Victoria Street, London, S.W.1. Failure to observe the recommendations contained therein may result in poor performance or damage to both tube and equipment.

If it is not desired to apply modulation to the cathode one side of the heater should be connected direct to cathode.

The tube is designed for use with deflecting coils which position the centre of deflection at 25 mm. approximately from the 35.3 mm. ring gauge point. It will be appreciated that the possibility of cut off of the picture area is intimately linked with the design of the deflecting coils.

It is desirable to maintain the external graphite coating at chassis potential, otherwise it may acquire a charge capable of imparting an electric shock to the user and/or causing picture interference.

