

FLYING SPOT SCANNER TUBES

14in. diagonal Rectangular Tubes with metal backed screen and external conductive coating. Primarily designed for general Flying Spot Scanner applications.

FOCUS Low Voltage Electrostatic.

DEFLECTION ... Magnetic. ...

SCREEN

Phosphor ... Type 'A' Type 'Fluorescence ... Green Blue/V Persistence ... Ultra short Killed Type 'Q' Type 'Q' Blue/Violet Magenta Type 'O2' For further details, refer to the relevant phosphor charac-

teristics at the front of this section of the handbook.

PHYSICAL DETAILS.

Base B12A (Duodecal). Max. Overall Length
Nom. neck diameter ... CT8 (Cavity Type). 420 mm. 37 mm. For other dimensions see drawing overleaf. Mounting Position

Mounting Position ... Any. These tubes have an external conductive coating which may be used for E.H.T. smoothing.

Side Contact-2nd Anode, 4th Anode.

BASE CONNECTIONS.

Pin 7—No Connection. Pin 8—No Pin. Pin 9—No Pin. Pin I-Heater. Pin 2—Grid. Pin 3—No Pin. Pin 4—No Pin. Pin 10-1st Anode. Pin 5—No Pin. Pin II—Cathode. Pin I2—Heater. Pin 6-3rd Anode.

HEATER

†Heater Voltage ... Heater Current ... 6.3 volts. 0.3 amp.

RATINGS.

Max. At Voltage ... 500 volts. ... Max. A₂+A₄ voltage ... Max. Pos. A₃ voltage ... 15 kV. ... +500 volts. Max. Neg. A₃ voltage ... -500 volts. ... Min. At voltage ... 200 volts ... Min. A₂+A₄ voltage 8 kV. Max. V_{h-k} ... 200 volts. ... Max. Rg-k Max. Rh-k 1.5 MO i ·0 MΩ

TYPICAL OPERATION.

1st Anode Voltage 300 volts. ... 2nd and 4th Anode voltage 12 kV. \$3rd Anode voltage or focus ... $\ddagger V_g$ for visual cut off -300 to + 300 volts. -40 to -80 volts.

CAPACITANCES.

 C_{k-all} <8 þ<u>F</u>. ... C_{g-all} <8 pF.

Ca-ext. coating ... 1100 pF. (approx.).

*A blue filter should be provided for the photocell to separate the two colour peaks which have different persistence times.

†When used for series operation, the surge heater voltage should not exceed 9.5 volts r.m.s. and a current limiting device should be incorporated in the circuit to limit switching surge.

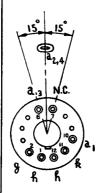
§The point of optimum focus lies between these values.

The grid should never be positive with respect to the cathode. except during the period immediately after switching off, when it may be allowed to rise to + I volt.

14/03AB

14/03QB

14/03Q2B

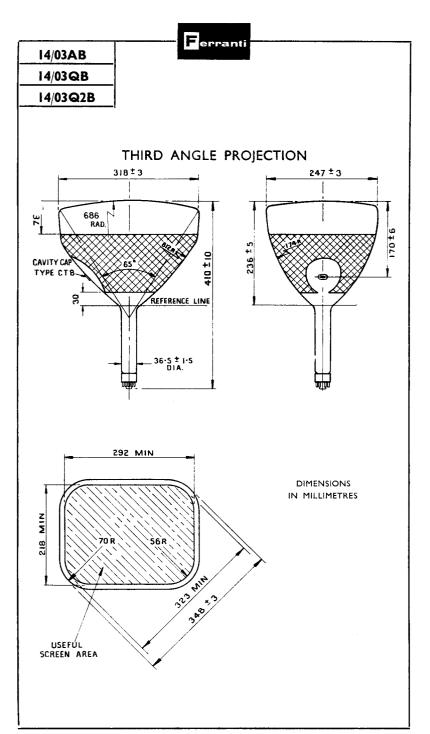


Base Connections

Underside View of Base



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FERRANTI LIMITED, GEM MILL, CHADDERTON, OLDHAM, LANCS.