HIGH RESOLUTION
CATHODE RAY TUBES

3" diameter high resolution triode tubes having optically flat faces with ground internal and external surfaces.

FOCUS .... ... Magnetic
DEFLECTION ... ... Magnetic—Angle 60°
SCREEN 3/21 AM 3/21 PM 3/21 QM
Phosphor Type 'A' 'P' 'Q'
Fluorescence Green Blue Blue/Violet
Persistence Ultra Short Ultra Short Killed

All types have metal-backed screens.

For further details refer to the relevant phosphor characteristics at the front of this section of the handbook.

PHYSICAL DETAILS
Base .... ... B12A (Duodecal)
Anode Cap .... ... CT17 (Recessed Ball type)
Max. Overall Length .... ... 365 mm.
Max. Diameter .... ... 97 mm.
Nom. Neck Diameter .... ... 35 mm.
Min. Useful Screen Area .... ... 85 mm. dia.

For other dimensions see drawing overleaf.

BASE CONNECTIONS
Pin 1—Heater Pin 7—Not connected
Pin 2—Grid Pin 8—No pin
Pin 3—No pin Pin 9—No pin
Pin 4—No pin Pin 10—Not connected
Pin 5—No pin Pin 11—Cathode
Pin 6—Not connected Pin 12—Heater

Side contact—Anode

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

RATINGS
Max. Anode Voltage .... ... 25 kV.
Nom. Vg for visual cut-off .... ... Va/210
Max. Vhk (heater negative) .... ... 200 volts
Max. Vhp (heater positive) .... ... 200 volts
Max. Rgk .... ... 1.5 MΩ

TYPICAL OPERATION
Heater Voltage .... ... 6.3 volts
Anode Voltage .... ... 20 kV.
Vg for visual cut-off .... ... -90V.
*Screen resolution .... ... 1000 lines per inch.

CAPACITANCE
Ck—all .... ... <8 pF.
Cg—all .... ... <8 pF.

X-RAY WARNING
When operated at an anode voltage in excess of 16kVd. X-ray shielding may be required to give protection against the possible danger of injury from prolonged exposure at close range.

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FERRANTI LIMITED, GEM MILL, CHADDERTON, OLDHAM, LANCS.
DIMENSIONS ARE IN MILLIMETRES.
TYPICAL BEAM CURRENT/GRID VOLTAGE CHARACTERISTIC

GRID VOLTAGE

BEAM CURRENT (µA)

25 kV

15 kV