Ferranti

RADAR TUBES

l2in. diameter flat faced Radar Display Tubes primarily designed for P.P.I. applications.

Improved version of CV.429, giving higher resolution.

FOCUS Magnetic DEFLECTION Magnetic

SCREEN.

Phosphor Type 'H' Type 'J'
Fluorescence Orange Blue
Afterglow Orange Yellow
Persistence Long Long
Both 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
 ...
 CT8. (Cavity Type)

 Max. Overall Length
 ...
 520 mm

 Neck Diameter
 ...
 .35 mm nominal

 For other dimensions, see drawing

BASE CONNECTIONS.

Pin I—Heater Pin 7—No Connection Pin 2—Grid Pin 8—No Pin Pin 9—No Pin Pin 4—No Pin Pin 10—Ist Anode Pin 5—No Pin Pin 11—Cathode Pin 6—No Connection Pin 12—Heater Side Cap—2nd Anode

HEATER.

Heater Voltage 6·3 volts Heater Current 0·3 amps

RATINGS.

 Max. Ist Anode Voltage
 ...
 600 volts

 Max. 2nd Anode Voltage
 ...
 15·5 kV

 Min. Ist Anode Voltage
 ...
 250 volts

 Min 2nd Anode Voltage
 ...
 9·0 kV

 Max. Cathode Current
 ...
 150 μA

 Max. V_{h-k}
 ...
 200 volts

 Max. R_{h-k}
 ...
 1·0 MΩ

 Max. R_{p-k}
 ...
 1·5 MΩ

CAPACITANCES.

TYPICAL OPERATING CONDITIONS.

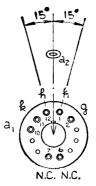
Ist Anode Voltage 300 volts
2nd Anode Voltage 15 kV
Vg for visual cut-off ... -60 volts
Av. Grid Drive for 50μA

beam current 20 volts Line width at I_B =50 μA ... 0 ·25 mm.

‡Focus Coil 640 amp. turns (approx)

12/08 HM

12/08 JM



Base Connections

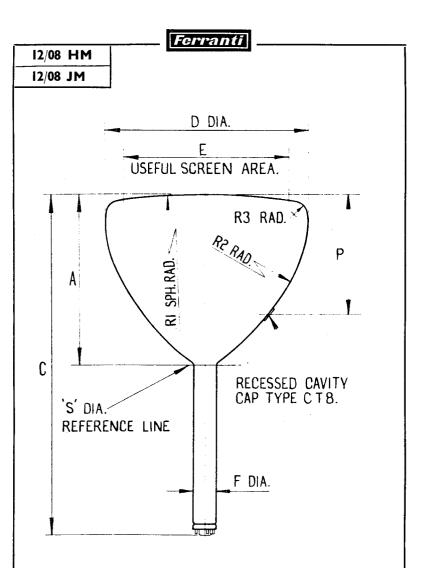
Underside View of Base



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^{*}This tube has a magnesium fluoride screen which is liable to burn even at low values of beam current, if operated with a spot which is stationary or slow moving.

[‡]Positioned so that the centre of the gap is approx. 120 mms. from the reference line (36 mm. Ring Gauge Position).



DIM.	INS.	mm.	DIM.	INS.	m m.
Α	10·710 ± ·138	272 ± 3·5	Р	7·087 ±·197	180 ± 5
C	20·197 ± ·276	513 ± 7	RI	39.370	1000
D	12·000±·079	305 ± 2	R2	16 · 772	426
E		250 MIN.	R3	·748 ± ·079	19 ± 2
F	1·378 ± :음종일	35 ± i ⁻⁵	S	1.417	36