Ferranti

RADAR TUBES

12in. diameter flat faced Radar Tubes designed for fine symbol presentation, where high resolution is of primary importance. Phosphor Type 'L3' enables flicker free images to be produced at repetition frequencies down to 10 cycles per second, but the persistence of moving targets is curtailed in comparison with Type 'H' or 'L' Phosphor.

FOCUS Magnetic DEFLECTION Magnetic SCREEN.

12/48L3M *Type 'L3' 12/48HM *Type 'H' Phosphor Fluorescence ... Orange Orange ... Afterglow ... Orange Orange ... Persistence very 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	 BI2A (Duodecal)
Anode Cap	 CT8 (Cavity Type)
Max. Overall Length	 640 mm. (25 ·20")
Min Useful Screen Area	 250 mm. (9 84") dia.
Nom. Neck diameter	 35 mm (1:378")

For other dimensions, see drawing.

BASE CONNECTIONS.

Pin I—Heater	Pin 7—No Connection
Pin 2—Grid	Pin 8—No Pin
Pin 3—No Pin	Pin ∙9—No Pin
Pin 4—No Pin	Pin 10—Ist Anode
Pin 5—No Pin	Pin II—Cathode
Pin 6-No Connection	Pin 12—Heater

Side Cap-2nd Anode.

HEATER.

Heater Voltage	 	6.3 volts
Heater Current	 	0 ⋅3 amp

RATINGS.

Max. Ist And	ode Vo	Itage	 600	volts
Min 1st Anode Voltage			 250	volts
Max. 2nd Anode Voltage			 15 5	kV
Min. 2nd Anode Voltage			 9.0	kV
Max. Cathode Current			 150	иA
Max. V _{h-k}		•••		voits
Max. Rb-k				MΩ
Max. Rok		••••		MΩ

TYPICAL OPERATING CONDITIONS.

Ist Anode Voltage			300	volts
2nd Anode Voltage			15	kΥ
Vg for visual cut-off			-90	volts
Av. Grid Drive for It	₃== 50	μA.	30	volts
Line width at IB=50	μΑ.	•••	0 .25	mm

The Focus coil should be positioned so that the centre of the gap is approx. 220 mm from the reference line (36 mm Ring Gauge Position).

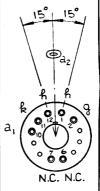
CAPACITANCES.

C _{k-all} C _{g-all}	•••	•••	•••	•••	<8 ·0 øF
C_{g-ali}	•••	•••	•••	•••	<8 ·0 þF

issue I. Sept., 1962 *This phosphor is liable to burn even at low values of beam current, if operated with a spot which is stationary or slow moving.

12/48HM

12/48L3M



Base
Connections
Underside View
of Base

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