

FERRANTI

RADAR TUBES

15in. diameter Radar Display Tubes with metal backed screens magnetic deflection, and low voltage electrostatic focus.

15/03 HB

15/03 JB

15/03 LB

FOCUS Low Voltage Electrostatic

DEFLECTION Magnetic

SCREEN.

	15/03HB	15/03JB	15/03LB
Phosphor Type	'H'	'J'	'L'
Fluorescence	Orange	Blue	Orange
Afterglow	Orange	Yellow	Orange
Persistence	Very long	Long	Long

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	...	CT8 Cavity Type.
Max. Overall Length	...	610 mm.
Nom. Neck Diameter	...	37 mm.

For other dimensions, see drawing.

Mounting Position ... Any except vertical screen down.

All types have an external conductive coating which can be used for E.H.T. smoothing.

A E CONNECTIONS.

Pin 1—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—1st Anode
Pin 5—No Pin.	Pin 11—Cathode.
Pin 6—3rd Anode.	Pin 12—Heater.
Side Contact—2nd Anode + 4th Anode.	

HEATER.

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

RATINGS.

Max. A ₁ Voltage	...	500 volts.
Max. A ₂ + A ₄ Voltage	...	15 kV.
Max. Pos. A ₃ Voltage	...	+500 volts.
Max. Neg. A ₃ Voltage	...	-500 volts.
Min. A ₁ Voltage	...	200 volts.
Min. A ₂ + A ₄ Voltage	...	8 kV.
Max. V _{h-k}	...	200 volts.
Max. R _{g-k}	...	1.5 MΩ
Max. R _{h-k}	...	1.0 MΩ

TYPICAL OPERATION.

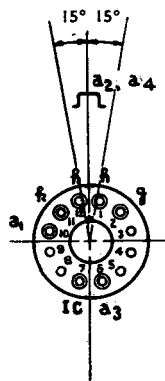
Heater Voltage	...	6.3 volts.
1st Anode Voltage	...	300 volts.
2nd+4th Anode Voltage	...	12 kV.
3rd Anode Voltage for focus	...	-300 to +300 volts.
†V _g for visual cut off	...	-30 to -90 volts.

CAPACITANCES.

C _k -all	...	<8 pF.
C _g -all	...	<8 pF.
C _a -ext. coating	...	1500 pF. approx.

*The screen phosphor of Type 15/03HB is liable to burn if operated with a stationary or slow moving spot, even at low values of beam current.

†The modulator 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 +1 volt.



Base
Connections
Underside View
of Base





15/03 HB

15/03 JB

15/03 LB

