

FERRANTI RADAR TUBES

16in. diameter Radar Display Tubes with metal backed screens
magnetic deflection and Low Voltage Electrostatic focus.

FOCUS	...	...	Low Voltage. Electrostatic.
DEFLECTION	...	...	Magnetic.
SCREEN.			
Phosphor	...	16/03HB	Type 'H'*
Fluorescence	...	...	Orange
Afterglow	...	...	Orange
Persistence	...	...	Very long
		16/03JB.	Type 'J'
		...	Blue.
		...	Yellow.

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	...	485 mm.

For other dimensions, see drawing.

Mounting Position	...	Any except vertical screen down.
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Both types have an external conductive coating which can be used for E.H.T. smoothing.

BASE 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.

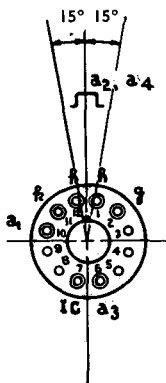
C _{k-all}	...	<8 pF.
C _{g-all}	...	<8 pF.
C _{a-ext. coating}	...	1500 pF. approx.

*The screen material of Type 16/03HB 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.

16/03HB

16/03 JB



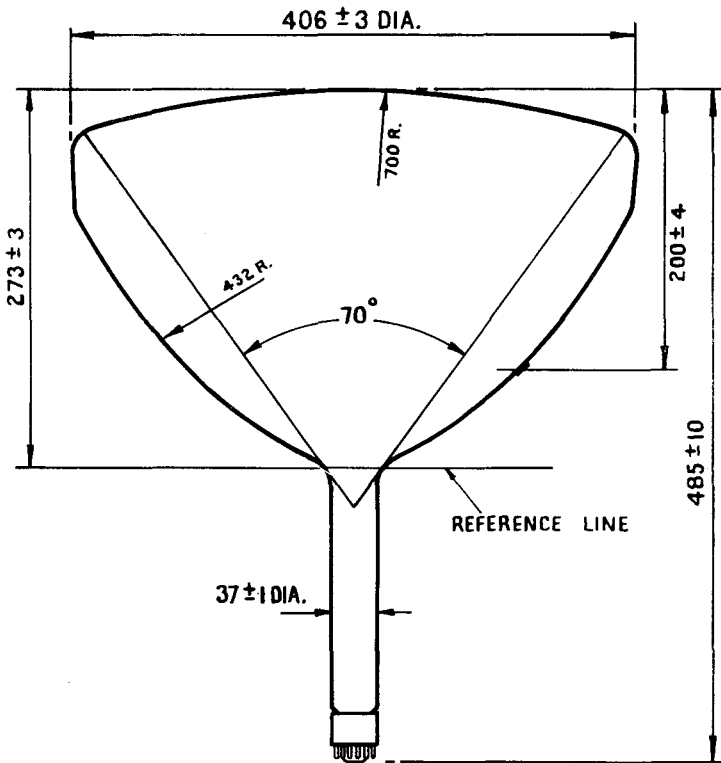
Base
Connections
Underside View
of Base





16/03HB

16/03 JB



ALL DIMENSIONS ARE IN MILLIMETRES