

= CV 2162

12/02 HM

FERRANTI RADAR TUBE

A 12in. diameter flat faced Radar Display Tube with Electrostatic Focus. It has a long persistence fluoride screen which is metal backed.

| | | |
|------------|--------------|----------------|
| FOCUS | | Electrostatic. |
| DEFLECTION | | Magnetic. |
| *SCREEN :- | Fluorescence | Orange. |
| | Afterglow | Orange. |
| | Persistence | Long. |

PHYSICAL DETAILS.

| | | |
|--|--------|----------------------|
| Base | | International Octal. |
| Anode Cap | | CT.I. |
| Max. Overall Length | | 545 mm. |
| Max. Diameter | | 306.5 mm. |
| Neck Diameter | | 35 ± 0.5 mm. |
| For other dimensions see drawing overleaf. | | |

BASE CONNECTIONS.

| | |
|----------------------|----------------|
| Pin 1—No Connection. | Pin 5—Grid. |
| Pin 2—1st Anode. | Pin 6—Cathode. |
| Pin 3—2nd Anode. | Pin 7—Heater. |
| Pin 4—No Connection. | Pin 8—Heater. |
| Side Cap—3rd Anode. | |

HEATER.

| | | |
|----------------|--------|------------|
| Heater Voltage | | 4.0 volts. |
| Heater Current | | 0.9 amp. |

RATINGS.

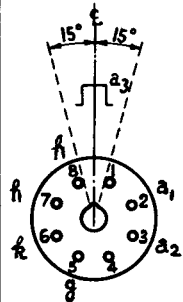
| | | |
|-------------------------|--------|------------|
| Max. 3rd Anode Voltage | | 13 kV. |
| Min. 3rd Anode Voltage | | 9 kV. |
| †Max. 1st Anode Voltage | | 2.2 kV. |
| †Min. 1st Anode Voltage | | 1.5 kV. |
| Max. V _{h-k} | | 150 Volts. |

CHARACTERISTICS AND TYPICAL OPERATION.

| | | |
|--|--------|--------------------|
| 3rd Anode Voltage | | 12 kV. |
| 2nd Anode Voltage for focus | | 1.85 to 2.05 kV. |
| 1st Anode Voltage | | 2.1 kV. |
| V _g for visual cut-off | | -70 to -120 Volts. |
| Av. Grid Drive for I _b = 50 μA. | | 22 Volts. |

CAPACITANCES.

| | | |
|--------------------|--------|------------|
| C _{k-all} | | < 10.0 pF. |
| C _{g-k} | | < 10.0 pF. |



**Base
Connections
Underside View
of Base**

The anode cap can lie within 15° either side of the centre line as indicated in the diagram.

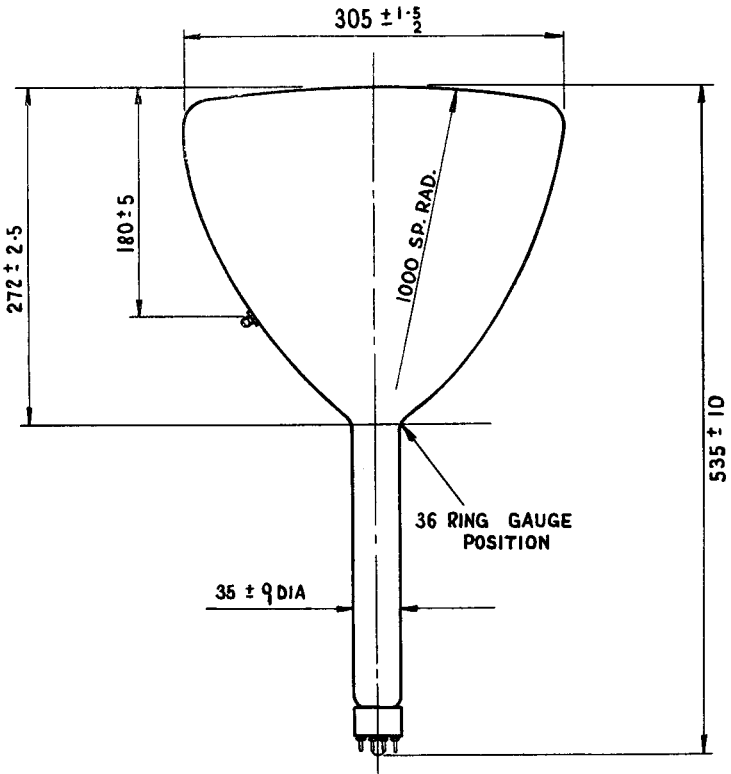
*The screen material is liable to burn if operated with a spot which is stationary or slow moving. The tube should not be operated under such conditions even at low beam current.

†The voltage applied to a₁ should always be at least 50 volts positive with respect to a₂.

This tube was formerly designated A12/02.



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All dimensions in millimetres.

