

FERRANTI RADAR TUBE

12/05HM

A 12in. diameter flat faced Radar Display Tube primarily designed for P.P.I. applications. Replacement type.*

FOCUS Magnetic.

DEFLECTION Magnetic.

SCREEN.

| | |
|---------------------|------------|
| Phosphor | Type H. |
| Fluorescence | Orange. |
| Afterglow | Orange. |
| Persistence | Very Long. |

PHYSICAL DETAILS.

| | |
|----------------------------|----------------------|
| Base | International Octal. |
| Anode Cap | CTI |
| Max. Overall Length | 495 mm. |
| Neck Diameter | 35 mm. nominal. |

For other dimensions see drawing.

BASE CONNECTIONS.

| | |
|-------------------------|----------------------|
| Pin 1—Not Connected. | Pin 5—Grid. |
| Pin 2—Heater. | Pin 6—Not Connected. |
| Pin 3—1st Anode. | Pin 7—Cathode. |
| Pin 4—Not Connected. | Pin 8—Heater. |
| Side Contact—2nd Anode. | |

HEATER.

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

RATINGS.

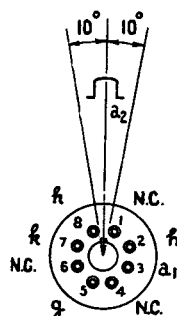
| | |
|-------------------------------|----------------|
| Max. 1st Anode Voltage | 850 volts. |
| Max. 2nd Anode Voltage | 15.0 kV. |
| Min. 1st Anode Voltage | 600 volts. |
| Min. 2nd Anode Voltage | 10.0 kV. |
| Max. Cathode Current | 150 μ A. |
| Max. V_{h-k} | 200 volts. |
| Max. R_{h-k} | 1.0 M Ω |
| Max. R_{g-k} | 1.5 M Ω |

CAPACITANCES.

| | |
|--------------------|--------|
| C_{k-all} | <8 pF. |
| C_{g-all} | <8 pF. |

TYPICAL OPERATING CONDITIONS.

| | |
|--|---------------------------|
| 1st Anode Voltage | 800 volts. |
| 2nd Anode Voltage | 10 kV. |
| V_g for visual cut off | -80 volts. |
| Av. Mod. Drive for 50 μ A. Beam Current | 20 volts |
| †Focus Coil | 640 amp. turns (approx.). |



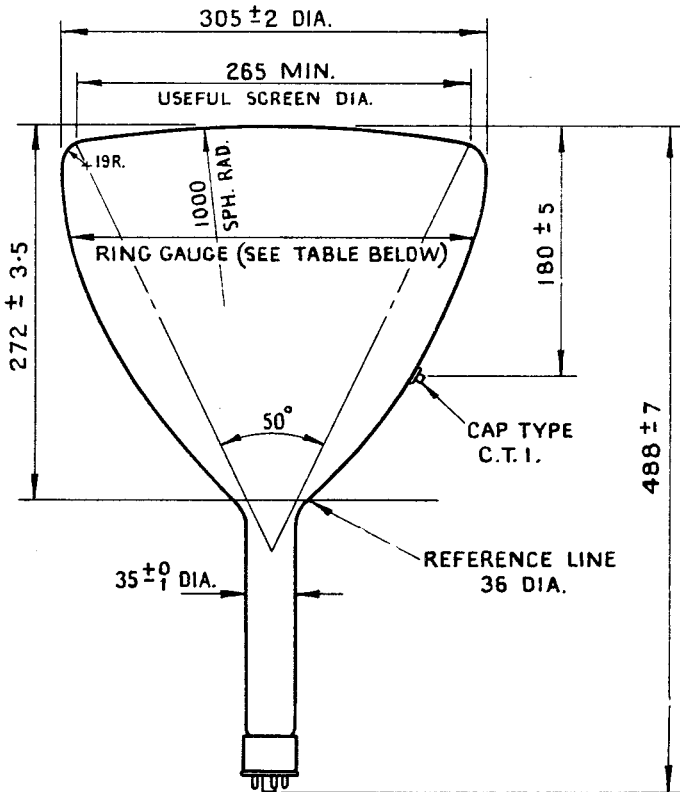
All dimensions in millimetres.

*This tube is equivalent to CV1869 or CV2328.

†Positioned so that the centre of the gap is approx. 98 mms. from the reference line (36mm. Ring Gauge Position).



12/05HM



| RING GAUGE | DISTANCE FROM CENTRE OF SCREEN | | |
|------------|--------------------------------|---|----|
| 280 | 93 | ± | 10 |
| 230 | 150 | ± | 9 |
| 180 | 191 | ± | 8 |
| 130 | 222 | ± | 7 |
| 80 | 249 | ± | 6 |