

DIAMETER 12" NOMINAL

**12M06A**

# 12M06A Radar Tube

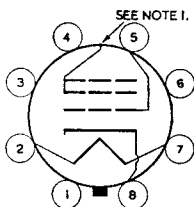
MAGNETIC FOCUS. MAGNETIC DEFLECTION

## DATA

### GENERAL :

Heater: Voltage . . . . .	4.0 . . . . .	a.c. or d.c. volts.
Current . . . . .	1.0 . . . . .	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes . . . . .		12.0 $\mu$ mf.
Cathode to all other electrodes . . . . .		10.0 $\mu$ mf.
Screen : . . . . .		Aluminium Backed.
Fluorescence . . . . .		Orange.
Afterglow . . . . .		Orange.
Persistence of Afterglow . . . . .		Long.
Focusing Method . . . . .		Magnetic.
Deflecting Method . . . . .		Magnetic.
Overall Length . . . . .		510 $\pm$ 10 mm.
Greatest Diameter of Bulb . . . . .		306.5 mm.
Minimum Useful Screen Diameter . . . . .		265 mm.
Mounting Position . . . . .		Any.
Anode Cap . . . . .		Cavity Cap BSS448/CT8.
Base . . . . .		International Octal.

- Pin 1—No connection.
- Pin 2—Heater.
- Pin 3—Pin omitted.
- Pin 4—Pin omitted.



- Pin 5—Modulator.
- Pin 6—Pin omitted.
- Pin 7—Heater.
- Pin 8—Cathode.
- Cap—Anode.

### Maximum Ratings :

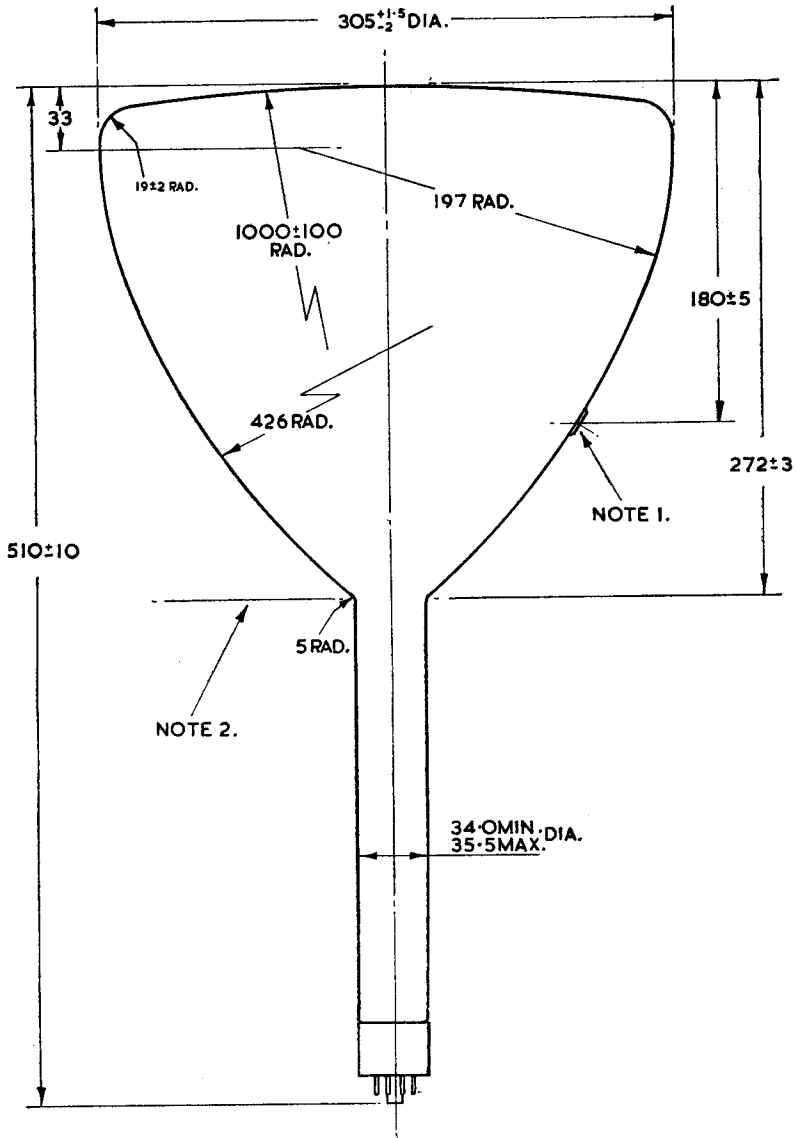
Anode Voltage . . . . .	11000 volts.
Modulator Voltage :	
Negative bias value . . . . .	130 volts.
Positive bias value . . . . .	0 volts.
Peak Heater-Cathode Voltages :	
Heater negative with respect to cathode . . . . .	125 volts.
Heater positive with respect to cathode . . . . .	125 volts.

### Typical Operating Conditions :

Anode Voltage . . . . .	10000 volts.
Modulator Voltage for cut-off . . . . .	-75 to -115 volts.
Focusing-Coil Current—See Note 3 . . . . .	560 A.T.
Spot Position . . . . .	See Note 4

**Note 3.** Focusing Coil positioned with centre line of air gap approximately 80 mm. from reference line (see outline drawing).

**Note 4.** The centre of the undeflected unfocused spot will fall within a circle having 10 mm. radius concentric with the centre of the tube face.



ALL SIZES IN MILLIMETRES.

**Note 1.** The plane through the tube axis and the spigot key may vary from the plane through the tube axis and the anode cap by an angular tolerance (measured about the tube axis) of  $10^\circ$ . The anode cap is on the same side of the tube as the spigot key.

**Note 2.** Reference line is determined by position where a gauge 36 mm. I.D. and 50 mm. long will rest on the bulb cone.