## DIAMETER 12" NOMINAL

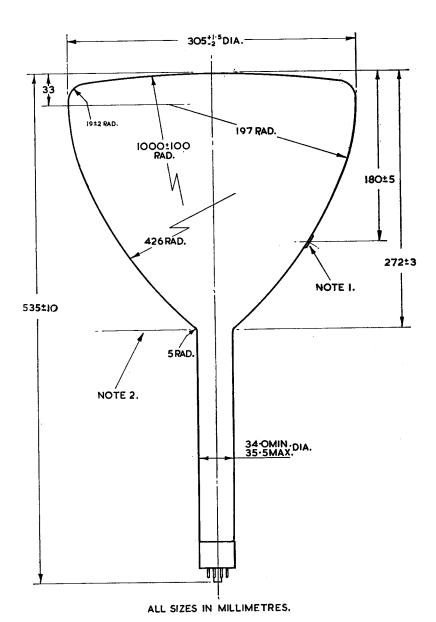
## 12LO3A

· TROSA

## Radar Tube

ELECTROSTATIC FOCUS. MAGNETIC DEFLECTION

DATA	
GENERAL:	
Heater: Voltage 4.0	. a.c. or d.c. volts.
Current 1.0	
Direct Inter-electrode Capacitances.	•
Modulator to all other electrodes Anode 1 to all other electrodes	. 15μμf.
Anode 1 to all other electrodes	. 15μμf.
Cathode to all other electrodes	. 12µµf.
Screen:	. Aluminium Backed.
Fluorescence	. Orange.
Afterglow	. Orange.
Persistence of Afterglow	. Long.
Focusing Method	. Electrostatic.
Deflecting Method	. Magnetic.
Overall Length	. $535 \pm 10$ mm.
Greatest Diameter of Bulb	. 306.5 mm.
Minimum Useful Screen Diameter	. 265 mm.
Mounting Position	. Any.
Anoue Cap	. Cavity Cap BSS448/CT8 . International Octal.
Afterglow Persistence of Afterglow Focusing Method Deflecting Method Overall Length Greatest Diameter of Bulb Minimum Useful Screen Diameter Mounting Position Anode Cap Base	. International Octal.
SEE NOTE 1.	
Pin 1—No connection. (4) (5)	Pin 5—Modulator.
3/ [(6)	Pin 6—Cathode.
Pin 3—Anode 2.	Pin 7—Heater.
Pin 4—No connection.	Pin 8—Heater.
	Cap—Final Anode.
(1) (8)	
Maximum Ratings:	
Final Anode Voltage	. 13000 volts.
Final Anode Voltage	. 2200 volts.
Modulator Voltage: Negative bias value Positive bias value Peak Heater-Cathode Voltages: Heater pegative with respect to cathode	
Negative bias value	. 130 volts.
Positive bias value	. 0 volts.
Peak Heater-Cathode Voltages:	
Heater negative with respect to cathode .	. 125 volts.
Heater negative with respect to cathode . Heater positive with respect to cathode .	. 125 volts.
Typical Operating Conditions:	
	. 12000 volts.
Final Anode Voltage	1000 volts + 100 volts
Anode 1 Voltage	2000 volts. ± 100 volts.
Modulator Voltage for out off	<ul> <li>1900 volts. ± 100 volts.</li> <li>2000 volts.</li> <li>-70 to -120 volts.</li> </ul>
Spot Position See Note 4	70 to -120 voits.
Spot I condon Dec 140te 4	



- 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°. 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.
- Note 3. Anode 1 must always be at least 50 volts positive to Anode 2.
- Note 4. The centre of the undeflected focused spot will fall within a circle having a 10 mm. radius concentric with the centre of the tube face.