

KINESCOPE

METAL-CONE ENVELOPE

MAGNETIC FOCUS

MAGNETIC DEFLECTION

DATA General: Heater, for Unipotential Cathode: Voltage..... ac or dc volts 0.6 amp Current. Direct Interelectrode Capacitances (Approx.): Grid No.1 to All Other Electrodes. $\mu\mu$ f $\mu\mu$ f Cathode to All Other Electrodes. 5 Face Plate . . RCA "Filterglass" Phosphor (For Curves, see front of this Section)
Fluorescence and Phosphorescence No.4—Sulfide Type White Persistence of Phosphorescence . . Medium Focusina Method. . . Magnetic Deflection Method. Magnetic Deflection Angle (Approx.) . 700 Ion-Trap Gun Requires External, Single-Field Magnet 17-11/16" Maximum Overall Length 15-7/8" ± 1/8" Greatest Diameter. . 14-5/8" Screen Diameter. . Any Mounting Position. Anode Terminal . Metal-Cone Lip Small-Shell Duodecal 5-Pin Base . . . BOTTOM VIEW Pin 1-Heater Pin 12 - Heater Pin 2-Grid No.1 Metal-Cone Lip: Pin 10 - Grid No. 2 Anode, Pin 11 - Cathode Grid No.3 Maximum Ratings, Design-Center Values: ANODEO VOLTAGE*....... 14000 max. volts 410 max. volts GRID-No.2 VOLTAGE. GRID-No.1 (CONTROL-ELECTRODE) VOLTAGE: 125 max. volts Negative bias value. . . . volts Positive bias value. . 0 max. volts 2 max. Positive peak value. . PEAK HEATER-CATHODE VOLTAGE: Heater negative with respect to cathode: During equipment warm-up period not volts 410 max. exceeding 15 seconds . . . volts 150 max. After equipment warm-up period 150 max. volts Heater positive with respect to cathode. 0 Anode and grid No.3, which are connected together with tube, are referred to herein as anode. The product of anode voltage and average anode current should be limited to 6 watts. Has transmission factor of about 65%.





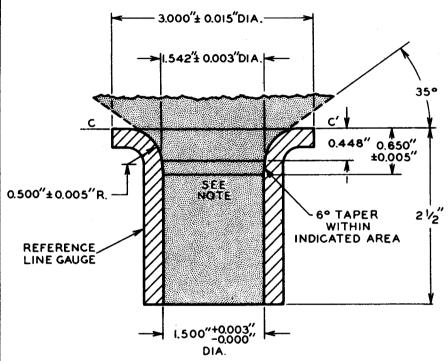
Typical Operation:		
Anode Voltage**	12000 300	volts volts
of Undeflected Focused Spot Focusing—Coil Current (DC, approx.)	-33 to -77	volts ma
Field Strength of Single-Pole, lon-Trap Magnet#	45	gausses
Maximum Circuit Values:		
Grid-No.1-Circuit Resistance	1.5 max.	megohms
Minimum Circuit Values:		
The power supply should be of the lin inherent regulation to limit the continuerent to 5 ma. If the supply permits the circuit current to exceed 1 ampere, or imore than 250 microcoulombs, the effection cuit between indicated electrode and should be as follows:	uous short—cir ne instantaneou is capable of ive resistance	cuit cur- us short- storing in cir-
Grid-No.1-Circuit Resistance Grid-No.2-Circuit Resistance Anode-Circuit Resistance	470 min.	ohms ohms ohms
The resistors used should be capable of plied voltage.	f withstanding	the ap-
For JETEC Focusing Coil No. 109 positioned w scope screen, and center line of air gap 3 i (see Outline Drawing). The indicated curre combined grid-Mo.1 bias voltage and video-s produce a highlight brightness of 30 foot-la picture area.	nches from Referent is for condi signal voltage ac	ence Line tion with liusted to
# Measured at center of field with General E No.409X51.		

Brilliance and definition decrease with decreasing anode voltage. general, the anode voltage should not be less than 12000 volts.

-> Indicates a change.

REFERENCE-LINE GAUGE

Reference-Line Gauge with Supplementary Information on Recommended Inside Contour of Yoke to Provide Proper Location of Yoke on Neck-Cone Section

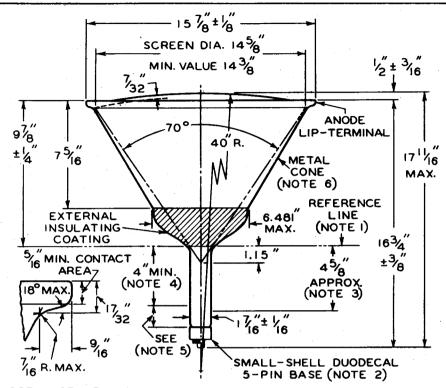


NOTE: INNER SURFACE OF YOKE MUST NOT EXTEND INTO SHADED REGION

92CS-7391

16GPA





DETAIL OF LIP

NOTE I: WITH TUBE NECK INSERTED THROUGH FLARED END OF GAUGE SHOWN ON PRECEDING PAGE AND WITH TUBE SEATED IN GAUGE, THE REFERENCE LINE IS DETERMINED BY THE INTERSECTION OF THE PLANE CC! OF THE GAUGE WITH THE GLASS CONE.

NOTE 2: SOCKET FOR THIS BASE SHOULD NOT BE RIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN A CIRCLE CONCENTRIC WITH CONE AXIS AND HAVING A DIAMETER OF 2-1/2".

NOTE 3: DISTANCE FROM REFERENCE LINE FOR LOCATING CENTER OF ION-TRAP MAGNETIC FIELD. DIRECTION OF FIELD OF THE ION-TRAP MAGNET SHOULD BE SUCH THAT NORTH POLE IS ADJACENT TO VACANT PIN POSITION No.8 AND SOUTH POLE TO PIN No.2.

NOTE 4: LOCATION OF DEFLECTING YOKE AND FOCUSING COIL MUST BE WITHIN THIS SPACE.

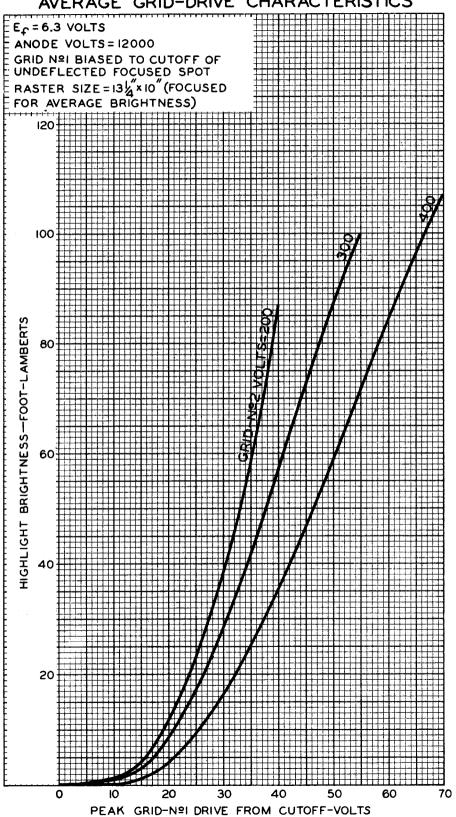
NOTE 5: KEEP THIS SPACE CLEAR FOR SINGLE-FIELD, ION-TRAP MAGNET.

NOTE 6: METAL CONE AND GLASS FACE OPERATE AT HIGH VOLTAGE. ANY MATERIAL IN CONTACT WITH THE CONE OR THE FACE MUST HAVE INSULATING PROPERTIES ADEQUATE FOR 15500 VOLTS.

92CM-7374



AVERAGE GRID-DRIVE CHARACTERISTICS



(CDA





CHARACTERISTICS

