

View-Finder Kinescope

MAGNETIC FOCUS

MAGNETIC DEFLECTION

GENERAL DATA

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes.	8	pf
Grid No.1 to all other electrodes.	5	pf
Heater Current at 6.3 volts.	600	ma

Optical:

Phosphor (For curves, see front of this section) .	P4—Sulfide Type
Fluorescence	White
Phosphorescence.	White
Persistence.	Short
Focusing Method.	Magnetic
Deflection Method.	Magnetic
Deflection Angle (Approx.)	53°

Mechanical:

Overall Length	11-1/8" $\pm$ 3/8"
Greatest Diameter.	4-15/16" $\pm$ 3/32"
Minimum Useful Screen Diameter	4-1/4"
Cap.	Recessed Small Ball (JEDEC No. J1-22)
Bases (Alternates):	

Long Medium-Shell Octal:

8-Pin (JEDEC Group 1, No. B8-65)

5-Pin (JEDEC Group 1, No. B5-80)

Medium-Shell Octal 8-Pin:

8-Pin (JEDEC Group 1, No. B8-11)

Pin 1—No Internal
Connection

Pin 2—Heater

Pin 3—Grid No.2

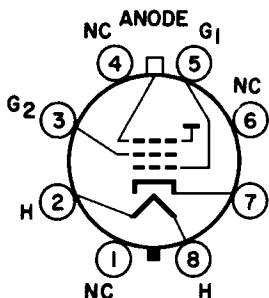
Pin 4—Same as
Pin 1

Pin 5—Grid No.1

Pin 6—Same as
Pin 1

Pin 7—Cathode

Pin 8—Heater

Cap—Anode
(Grid No.3,
Collector)

Maximum Ratings, Design-Center Values:

ANODE VOLTAGE ^a	8000 max.	volts
GRID-No.2 VOLTAGE	410 max.	volts
GRID-No.1 VOLTAGE:		
Negative bias value	125 max.	volts
Positive bias value	0 max.	volts
Positive peak value	2 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	150 max.	volts
Heater positive with respect to cathode	150 max.	volts



5FP4A

Typical Operation:

Anode Voltage ^b	6000	volts
Grid-No.2 Voltage	250	volts
Grid-No.1 Voltage for Visual Extinction of Undelected Focused Spot	-25 to -70	volts
Focused-Coil Current (DC, approx.) ^c	120 ± 15%	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance. 1.5 max. megohms

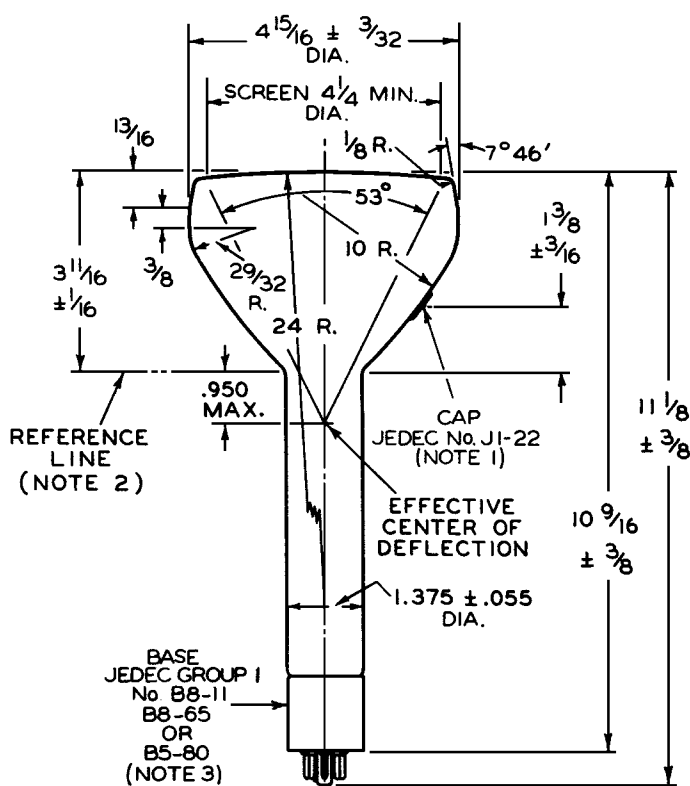
^a The product of anode voltage and average anode current should be limited to 6 watts.

^b Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than 4000 volts.

^c For specimen focusing coil similar to JEDEC Focusing Coil No.106 positioned with air gap toward kinescope screen, and center line of air gap 3-1/4" from Reference Line (see Outline Drawing). The indicated current is for condition with combined grid-No.1 bias voltage and video-signal voltage adjusted to produce a highlight brightness of 10 foot-lamberts on a 3-7/8" x 2-7/8" picture area sharply focused at center of screen.



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92CM-6362R5

DIMENSIONS IN INCHES

NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND PIN 5 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ANODE TERMINAL BY AN ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF 10° . ANODE TERMINAL IS ON SAME SIDE OF TUBE AS PIN 5.

NOTE 2: REFERENCE LINE IS DETERMINED BY POSITION WHERE GAUGE 1.430" $\pm$.003" $\pm$.000" INSIDE DIAMETER AND 2" LONG WILL REST ON BULB CONE.

NOTE 3: CENTER LINE OF BULB WILL NOT DEVIATE MORE THAN 2° IN ANY DIRECTION FROM THE PERPENDICULAR ERECTED AT THE CENTER OF THE BOTTOM OF THE BASE.



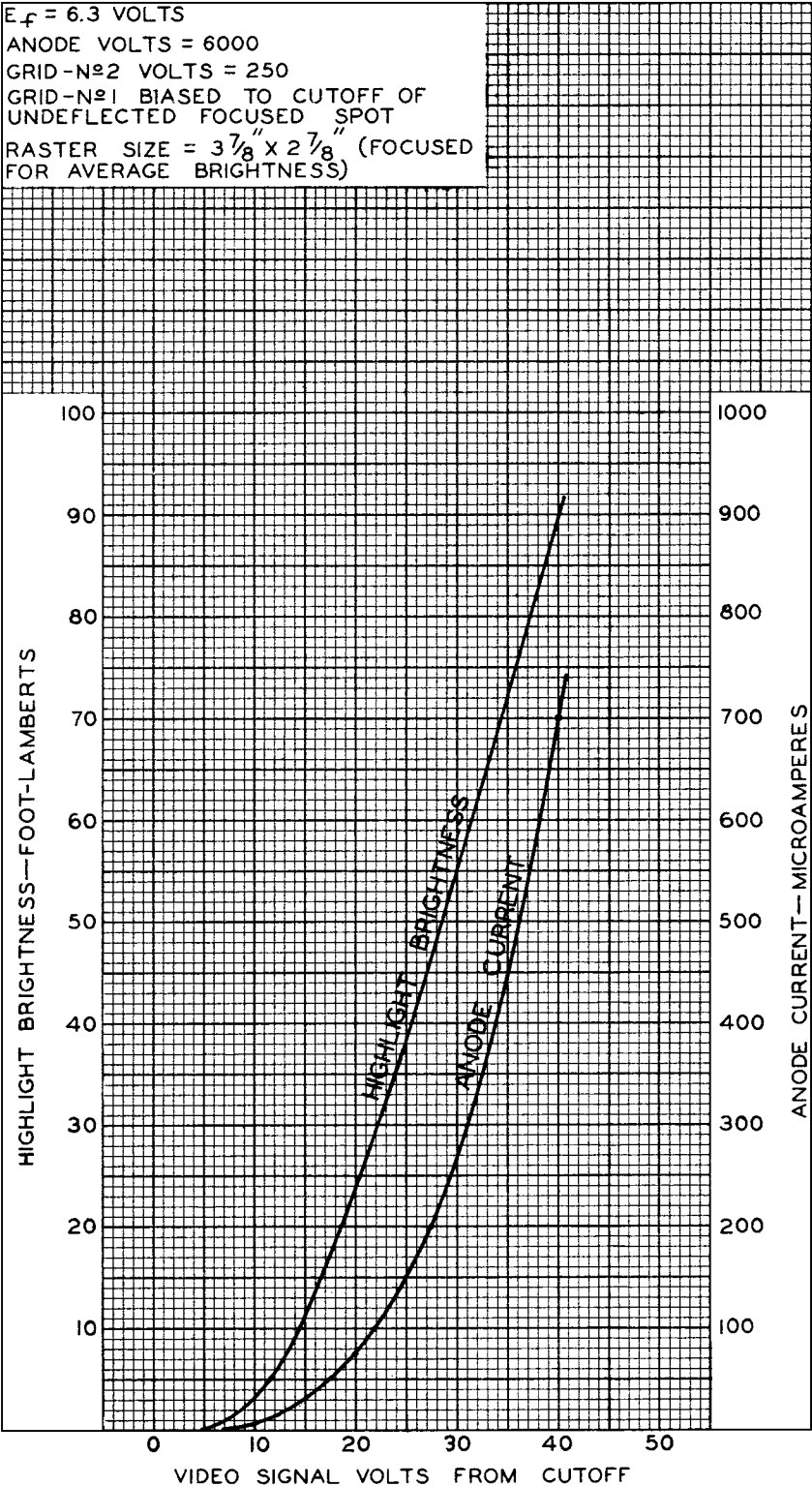
RADIO CORPORATION OF AMERICA
Electronic Components and Devices Harrison, N. J.

DATA 2
8-63

5FP4A

AVERAGE GRID-DRIVE CHARACTERISTICS

$E_f = 6.3$ VOLTS
ANODE VOLTS = 6000
GRID-N ϕ 2 VOLTS = 250
GRID-N ϕ 1 BIASED TO CUTOFF OF
UNDEFLECTED FOCUSED SPOT
RASTER SIZE = $3\frac{7}{8}'' \times 2\frac{7}{8}''$ (FOCUSED
FOR AVERAGE BRIGHTNESS)



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