

Picture Tube

FILLED-RIM TYPE

114° MAGNETIC DEFLECTION

LOW GRID-No.2 VOLTAGE

Direct Interelectrode Capacitances

Cathode to all other electrodes	5	pF
Grid No.1 to all other electrodes	6	pF
External conductive coating to anode ^a	1000 min—1500 max	pF
Heater Current at 6.3 V	450 ± 20	mA
Heater Warm-Up Time (Average)	11	s
Electron Gun.	Type Requiring No Ion-Trap Magnet	

OPTICAL

Phosphor.	P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate	Filterglass
Light transmission at center (Approx.).	48%

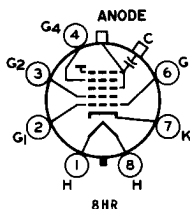
MECHANICAL

Weight (Approx.).	16 lb
Overall Length.	11.625 ± .250 in
Neck Length	4.375 ± .125 in
Projected Area of Screen.	172 sq in
External Conductive Coating	

Type (See CRT OUTLINES 1 at front of this section).	Modified-Band
Contact area for grounding.	Near Reference Line
Cap	Recessed Small Cavity (JEDEC No. J1-21)
Base.	Small-Button Neoeightar 7-Pin, Arrangement 1, (JEDEC No. B7-208)

TERMINAL DIAGRAM (Bottom View)

- Pin 1—Heater
- Pin 2—Grid No.1
- Pin 3—Grid No.2
- Pin 4—Grid No.4
- Pin 6—Grid No.1
- Pin 7—Cathode
- Pin 8—Heater



- Cap—Anode
(Grid No.3,
Grid No.5,
Screen,
Collector)
- C—External
Conductive
Coating

MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

Voltages are positive with respect to grid No.1

Anode Voltage	12000 min—21000 max	V
Grid-No.4 Voltage		
Positive value.	1250 max	V
Negative value.	400 max	V
Grid-No.2 Voltage	25 min—60 max	V
Cathode Voltage		
Negative peak value	2 max	V
Negative bias value	0 max	V
Positive bias value	100 max	V
Positive peak value	150 max	V



Heater Voltage. 5.7 min—6.9 max V

Peak Heater-Cathode Voltage

Heater negative with respect to cathode:

During equipment warm-up period ≤ 15 s. . . 450 max V

After equipment warm-up period. 300 max V

Heater positive with respect to cathode:

Combined AC & DC voltage. 200 max V

DC component. 100 max V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

Voltages are positive with respect to grid No.1

Anode Voltage 16000 V

Grid-No.4 Voltage 0 to 400 V

Grid-No.2 Voltage 50 V

Cathode Voltage 32 to 50 V

For visual extinction of focused raster

Field Strength. 0 to 8 G

Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance. 1.5 max M Ω

^a Includes implosion protection hardware.

DIMENSIONAL OUTLINE

(Bulb J149 F)

DIMENSIONS IN INCHES

