

16BGP4

Picture Tube

PAN-O-PLY — INTEGRAL IMPLOSION PROTECTION

(Provided by Formed Rim and Welded Tension Bands around Periphery of Tube Panel--- No Separate Safety-Glass or Integral Protective Window Required)

RECTANGULAR GLASS TYPE

ALUMINIZED SCREEN

LOW-VOLTAGE ELECTROSTATIC FOCUS

114° MAGNETIC DEFLECTION

NO ION-TRAP MAGNET REQUIRED

Electrical:

Direct Interelectrode Capacitances:

Grid No.1 to all other electrodes	6	pf
Cathode to all other electrodes	5	pf
External conductive coating to anode ^a	$\begin{cases} 1300 \text{ max.} \\ 800 \text{ min.} \end{cases}$	$\begin{cases} \text{pf} \\ \text{pf} \end{cases}$

Heater Current at 6.3 volts 450 $\pm$ 20 ma

Heater Warm-Up Time (Average) 11 seconds

Electron Gun. Type Requiring No Ion-Trap Magnet

Optical:

Phosphor (For curves, see front of this section) . .P4—Sulfide Type
Aluminized

Faceplate Filterglass

Light transmission at center (Approx.) 54%

Mechanical:

Weight (Approx.) 9.5 lbs

Overall Length 10.569" $\pm$.242"

Neck Length 4.375" $\pm$.125"

Projected Area of Screen 125 sq. in.

External Conductive Coating:

Type Regular Band

Contact area for grounding Near Reference Line

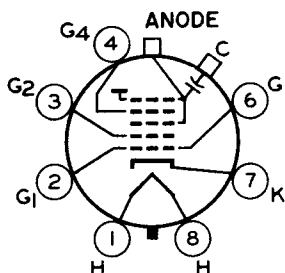
For Additional Information on Coatings, Dimensions, and Deflection Angles, See *Picture-Tube Dimensional-Outlines* and *Bulb J125 B* sheets at front of this Section

Cap Recessed Small Cavity (JEDEC No.J1-21)

Base Small-Button Neoeightar 7-Pin,
Arrangement 1, (JEDEC No.B7-208)

Basing Designation for BOTTOM VIEW 8HR

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



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Maximum and Minimum Ratings, Design-Maximum Values:

*Unless otherwise specified, voltage values
are positive with respect to cathode*

Anode Voltage	{20000 max. 12000 min.	volts volts
Grid-No.4 Voltage:		
Positive value.	1100 max.	volts
Negative value.	550 max.	volts
Grid-No.2 Voltage	{550 max. 200 min.	volts volts
Grid-No.1 Voltage:		
Negative peak value	220 max.	volts
Negative bias value	155 max.	volts
Positive bias value	0 max.	volts
Positive peak value	2 max.	volts
Heater Voltage.	{6.9 max. 5.7 min.	volts volts
Peak Heater-Cathode Voltage:		
Heater negative with respect to cathode:		
During equipment warm-up period		
not exceeding 15 seconds.	450 max.	volts
After equipment warm-up period.	300 max.	volts
Heater positive with respect to cathode:		
Peak value.	200 max.	volts
DC component.	100 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

*Unless otherwise specified, voltage values
are positive with respect to grid No.1*

Anode Voltage	16000	volts
Grid-No.4 Voltage ^b	100	volts
Grid-No.2 Voltage	300	volts
Cathode Voltage for visual extinction		
of focused raster	28 to 60	volts
Field Strength of required adjustable		
centering magnet.	0 to 8	gauss

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.	1.5 max.	megohms
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^a Includes implosion protection hardware.
^b The grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between -100 and +300 volts with the combined cathode voltage and video-signal voltage adjusted to give an anode current of 100 microamperes on a 9-inch by 12-inch pattern from an RCA-2F21 monoscope, or equivalent.

For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section