

Picture Tube

PAN-O-PLY TYPE
114° MAGNETIC DEFLECTION

LOW-VOLTAGE ELECTROSTATIC FOCUS
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	
Focus Lens.	Unipotential	

OPTICAL

Phosphor.P4—Sulfide Type, Aluminized	
For curves, see front of this section		
Faceplate	Filterglass	
Light transmission at center (Approx.).	54%	

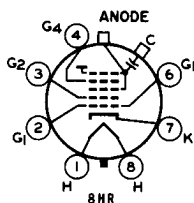
MECHANICAL

Weight (Approx.).	9.5 lb
Overall Length.	10.569 ± .242 in
Neck Length	4.375 ± .125 in
Projected Area of Screen.	125 sq in

External Conductive Coating	Type (see CRT OUTLINES 1 at front of this section)	Regular-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—20000 max	V
Grid-No.4 Voltage		
Positive value.	1250 max	V
Negative value.	400 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



16CHP4A

Grid-No.2 Voltage	20 min—60 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 ^b	100	V
Grid-No.2 Voltage	30	V
Cathode Voltage	22 to 45	V

For visual extinction of focused raster

Field Strength	0 to 8	G
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Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE

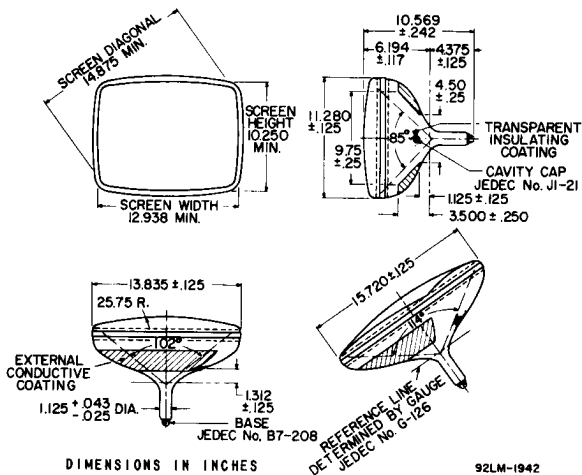
Grid-No.1 Circuit Resistance	1.5 max	M Ω
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^a Includes implosion protection hardware.

^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 mono-scope, or equivalent.

See X-RADIATION PRECAUTIONS at front of this section

DIMENSIONAL OUTLINE (BULB J125 B2A)



DIMENSIONS IN INCHES

92LM-1942

