

Picture Tube

PAN-O-PLY—INTEGRAL IMPLOSION PROTECTION
LOW-VOLTAGE ELECTROSTATIC FOCUS 114° MAGNETIC DEFLECTION
LOW-GRID-No. 2 VOLTAGE CATHODE-DRIVE TYPE

ELECTRICAL

Direct Interelectrode Capacitances

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

OPTICAL

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

MECHANICAL

MECHANICAL

Weight (Approx.)	15	lb
Overall Length	11.625 ± 0.250	in
Neck Length.	4.375 ± 0.125	in
Projected Area of Screen	172	sq in
External Conductive Coating		

Type Modified-Band
Contact area for grounding : Near Reference Line
For Additional Information on Coatings and Dimensions

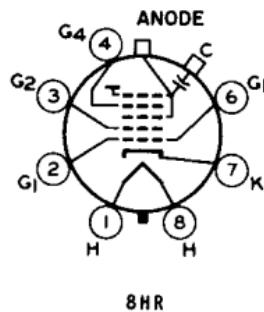
For Additional Information on Coatings and Dimensions
See Page 711, Part II.

See Picture-Tube Dimensional-Outline and Bulb J149 F sheets at front of this section

Cap. Recessed Small Cavity (JEDEC No.JI-21)
Base Small-Button Neoeightar 7-Pin,
Arrangement I, (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



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

DATA
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MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

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

Anode Voltage { 21000 max V
 12000 min V

Grid-No.4 (Focusing) Voltage

Positive value 1250 max V
Negative value 400 max V

Grid-No.2 Voltage { 60 max V
 25 min 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 { 6.9 max V
 5.7 min V

Peak Heater-Cathode Voltage

Heater negative with respect to cathode:

During equipment warm-up period not exceeding 15 seconds.	450 max	V
After equipment warm-up period	300 max	V

Heater positive with respect to cathode:

Combined AC and DC voltage	200 max	V
DC component	100 max	V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

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

Anode Voltage 16000 V

Grid-No.4 Voltage 250 V

Grid-No.2 Voltage 50 V

Cathode Voltage 32 to 50 V

For visual extinction of focused raster

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance 1.5 max MΩ

^a External conductive coating and implosion protection hardware must be grounded.

^b The grid-No.4 voltage required for optimum focus of any individual tube will have a value anywhere between 0 to + 400 volts with the combined grid-No.1 voltage and video-signal voltage adjusted to give an anode current of 100 microamperes on a 10-1/2 inch by 14-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

