

16RP4B

Picture Tube

NO ION-TRAP MAGNET REQUIRED

MAGNETIC FOCUS

70° MAGNETIC DEFLECTION

ELECTRICAL

Direct Interelectrode Capacitances

Cathode to all other electrodes.	5	pF
Grid No.1 to all other electrodes.	6	pF
External conductive coating to anode	{ 2000 max 750 min	{ pF pF

Heater Current at 6.3 V. 600 ± 30 mA

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 (Approx.) 66%

MECHANICAL

Weight (Approx.) 16 lb

Overall Length 18.750 ± 0.375 in

Neck Length. 7.500 ± 0.188 in

Projected Area of Screen 139 sq in

External Conductive Coating

Type Regular-Band

Contact area for grounding Near Reference-Line

For Additional Information on Coatings and Dimensions

See *Picture-Tube Dimensional-Outlines* and *Bulb J129A/B* sheets
at front of this section

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

Base . . . Small-Shell Duodecal 5-Pin (JEDEC Group 4, No.B5-57)

Basing Designation for BOTTOM VIEW 12N

Pin 1—Heater

Pin 2—Grid No.1

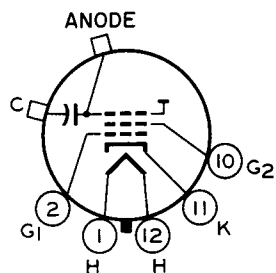
Pin 10—Grid No.2

Pin 11—Cathode

Pin 12—Heater

Cap—Anode (Grid No.3,
Screen,
Collector)

C—External
Conductive Coating



MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

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

Anode Voltage. 17500 max V

Grid-No.2 Voltage. 450 max V

Grid-No.1 Voltage

Negative bias value. 140 max V

Positive bias value. 0 max V

Positive peak value. 2 max V



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

DATA
10-65

16RP4B

Heater Voltage	{ 6.9 max	V
Peak Heater-Cathode Voltage	{ 5.7 min	V
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds.	450 max	V
After equipment warm-up period	165 max	V
Heater positive with respect to cathode:		
Combined AC and DC voltage	165 max	V
DC component	100 max	V

TYPICAL OPERATING CONDITIONS FOR GRID-DRIVE SERVICE

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

Anode Voltage.	12000	V
Grid-No.2 Voltage.	300	V
Grid-No.1 Voltage.	-28 to -72	V
For visual extinction of focused raster		

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance	1.5 max	MΩ
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For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this section

