

# 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 . . . . .	$\left\{ \begin{array}{l} 2000 \text{ max} \\ 750 \text{ min} \end{array} \right.$	$\left\{ \begin{array}{l} \text{pF} \\ \text{pF} \end{array} \right.$
Heater Current at 6.3 V. . . . .		600 ± 30
Electron Gun . . . . .	Type Requiring No Ion-Trap Magnet	

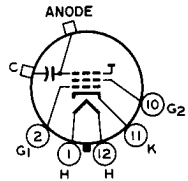
### OPTICAL

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
<b>For Additional Information on Coatings and Dimensions</b>	
See <i>Picture-Tube Dimensional-Outlines</i> and <i>Bulb J129A/B</i> 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



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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. . . . .	1200	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

