

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
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	

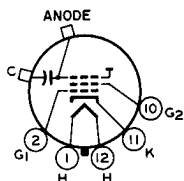
Type	Regular-Band
Contact area for grounding	Near Reference-Line

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



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.		
After equipment warm-up period	450 max	V
Heater positive with respect to cathode:	165 max	V
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

