

19CXP4

Picture Tube

NO ION-TRAP MAGNET REQUIRED

LOW-VOLTAGE ELECTROSTATIC FOCUS

114° MAGNETIC DEFLECTION

Low-Grid-No. 2 Voltage — for Cathode-Drive Operation

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.	{ 1900 max 1400 min	pF

Heater Current at 6.3 V 600 $\pm$ 60 mA

Heater Warm-Up Time (Average) 11 s

Electron Gun. Type Requiring No Ion-Trap Magnet

OPTICAL

Phosphor. P4—Sulfide Type, Alumined

For curves, see front of this section

Faceplate Filterglass

Light transmission (Approx.). 78%

MECHANICAL

Weight (Approx.). 14 lb

Overall Length. 11.625 $\pm$ 0.250 in

Neck Length 4.375 $\pm$ 0.125 in

Projected Area of Screen. 172 sq in

External Conductive Coating

Type. Regular-Band

Contact area for grounding. Near Reference Line

For Addition Information on Coatings and Dimensions

See *Picture-Tube Dimensional-Outlines* and *Bulb J149A* sheets at front of this section

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

Base. Special 6-Pin (JEDEC No. B6-214)

Basing Designation for BOTTOM VIEW. 7FA

Pin 2—Cathode

Pin 3—Heater

Pin 4—Heater

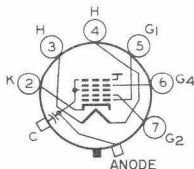
Pin 5—Grid No.1

Pin 6—Grid No.4

Pin 7—Grid No.2

Cap—Anode (Grid No.3,
Grid No.5, Screen,
Collector)

C—External Conductive
Coating



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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	{ 20000 max 12000 min	V V
Grid-No.4 (Focusing) Voltage		
Positive value.	1100 max	V
Negative value.	500 max	V
Grid-No.2 Voltage	{ 55 max 30 min	V 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 5.7 min	V 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.	200 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	0 to 500	V
Grid-No.2 Voltage	45	V
Cathode Voltage	35 to 50	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