

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	±60 mA
Heater Warm-Up Time (Average)	11	s
Electron Gun.	Type Requiring No Ion-Trap Magnet	

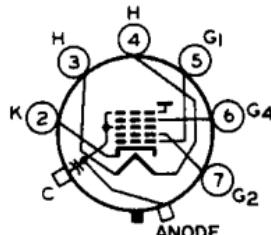
OPTICAL

Phosphor.	P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate	Filterglass Light transmission (Approx.). 78%

MECHANICAL

Weight (Approx.).	14 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.	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.JI-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



19CXP4

MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

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

Anode Voltage	{ 20000 max	V
	{ 12000 min	V
Grid-No.4 (Focusing) Voltage		
Positive value.	1100 max	V
Negative value.	500 max	V
Grid-No.2 Voltage	{ 55 max	V
	{ 30 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.	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

