

Test Picture Tube

NO ION-TRAP MAGNET REQUIRED

**RECTANGULAR GLASS TYPE
ELECTROSTATIC SELF FOCUS**

**ALUMINIZED SCREEN
90° MAGNETIC DEFLECTION**

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes.	5	pf
Grid No.1 to all other electrodes.	6	pf
Heater Current at 6.3 volts.	600	ma
Electron Gun.	Type Requiring No Ion-Trap Magnet	

Optical:

Phosphor (For Curves, see front of this Section)	P4—Sulfide Type, Aluminized
Faceplate.	Filterglass
Light transmission (Approx.)	80%

Mechanical:

Weight (Approx.)	3 lbs
Overall Length	11.44" ± .31"
Neck Length.	7.50" ± .19"
Projected Area of Screen	36 sq. in.
External Conductive Coating.	None

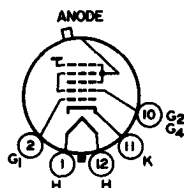
For Additional Information on Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J67-1/2A* 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. 12S

- Pin 1 - Heater
- Pin 2 - Grid No.1
- Pin 10 - Grid No.2,
Grid No.4
- Pin 11 - Cathode
- Pin 12 - Heater
- Cap - Anode
(Grid No.3,
Grid No.5,
Screen,
Collector)



Maximum Ratings, Design-Maximum Values:

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

Anode Voltage.	22000 max.	volts
Grid-No.2 and Grid-No.4 Voltage.	550 max.	volts
Grid-No.1 Voltage:		
Negative peak value.	220 max.	volts
Negative bias value.	155 max.	volts
Positive bias value.	0 max.	volts
Positive peak value.	2 max.	volts



8XP4

Peak Heater-Cathode Voltage:

Heater negative with respect to cathode:		
During equipment warm-up period		
not exceeding 15 seconds.	450 max.	volts
After equipment-warm-up period.	200 max.	volts
Heater positive with respect to cathode.		
	200 max.	volts

Typical Operating Conditions for Cathode-Drive Service:

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

Anode Voltage	16000	volts
Grid-No.2 and Grid-No.4 Voltage	400	volts
Cathode Voltage for visual extinction of focused raster.		
	36 to 78	volts

Maximum Circuit Value:

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

