

Test Picture Tube

NO ION-TRAP MAGNET REQUIRED

**RECTANGULAR GLASS TYPE
ELECTROSTATIC SELF FOCUS**

**ALUMINIZED SCREEN
110° MAGNETIC DEFLECTION**

Electrical:

Direct Interelectrode Capacitances:

Cathode to all other electrodes.	4	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.)	2 lbs
Overall Length	8.69" ± .31"
Neck Length.	5.19" ± .19"
Projected Area of Screen	39 sq. in.
External Conductive Coating.	None

For Additional Information on Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J67-1/2 B* sheets at front of this section

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

Bases (Alternates):

Special 6-Pin (JEDEC No.B6-185)

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

Basing Designation for BOTTOM VIEW 7FG

Pin 2—Cathode

Pin 3—Heater

Pin 4—Heater

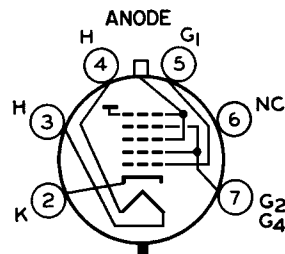
Pin 5—Grid No.1

Pin 6—No Internal Connection

Pin 7—Grid No.2, Grid No.4

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



8YP4

Peak Heater-Cathode Voltage:		
Heater negative with respect to cathode:		
During equipment warm-up period		
not exceeding 15 seconds	450	volts
After equipment-warm-up period	200	volts
Heater positive with respect to cathode . . .	200	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.	42 to 78	volts

Maximum Circuit Value:

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

