

Test Picture Tube

NO ION-TRAP MAGNET REQUIRED
ELECTROSTATIC SELF FOCUS

ROUND GLASS TYPE
53° 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
 Faceplate Clear Glass

Mechanical:

Weight (Approx.).	1-1/2 lbs
Overall Length.	10.62" ± .38"
Neck Length.	7.38" ± .25"
Projected Area of Screen.	14.2 sq.in.
External Conductive Coating	None

For Additional Information of Dimensions:

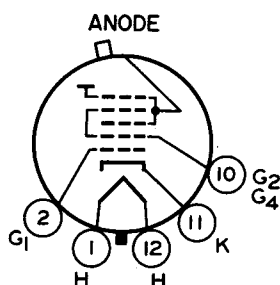
See accompanying *Bulb J39 1/2 P*

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.	20000 max. volts
Grid-No.2 and Grid-No.4 Voltage.	550 max. volts
Grid-No.1 Voltage:	
Negative bias value.	155 max. volts
Positive bias value.	0 max. volts
Positive peak value.	2 max. volts



5AXP4

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

For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section

