

Picture Tube

SHORT RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUSALUMINIZED SCREEN
114° MAGNETIC DEFLECTION

With Heater Having Controlled Warm-Up Time

GENERAL DATA

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 . . .	{ 2500 max. 1700 min.	pf

Heater Current at 6.3 volts 600 ± 60 ma

Heater Warm-Up Time (Average) 11 seconds

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.). 78%

Mechanical:

Weight (Approx.). 24 lbs

Overall Length. 13-11/16" + 5/16" - 1/4"

Neck Length 4-3/8" ± 1/8"

Projected Area of Screen. 282 sq. in.

External Conductive Coating:

Type. Regular-Band

Contact area for grounding. Near Reference Line

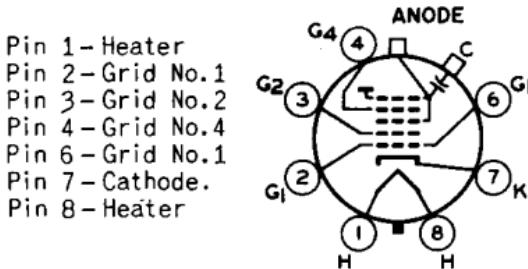
For Additional Information on Coatings and Dimensions:

See Picture-Tube Dimensional-Outlines and Bulb J187 B sheets at front of this section

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

Base. Small-Button Neoeightar 7-Pin, Arrangement 1, (JEDEC No.B7-208)

Basing Designation for BOTTOM VIEW. 8HR



Cap - Anode
 (Grid No.3,
 Grid No.5,
 Screen,
 Collector)
 C - External
 Conductive
 Coating



23FP4A

Maximum and Minimum Ratings, Design-Maximum Values:

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

ANODE VOLTAGE { 23500 max. volts
 11000 min. volts

GRID-No.4 (FOCUSING) VOLTAGE:

Positive value. 1100 max. volts

Negative value. 550 max. volts

GRID-No.2 VOLTAGE { 550 max. volts
 200 min. volts

GRID-No.1 VOLTAGE:

Negative peak value 200 max. volts

Negative bias value 154 max. volts

Positive bias value 0 max. volts

Positive peak value 2 max. volts

HEATER VOLTAGE. { 6.9 max. volts
 5.7 min. volts

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:

Combined AC and DC voltage. 200 max. volts

DC component. 100 max. volts

Typical Operating Conditions for Grid-Drive Service:

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

Anode Voltage 14000 volts

Grid-No.4 Voltage 0 to 400 volts

Grid-No.2 Voltage 450 volts

Grid-No.1 Voltage for visual extinction
of focused raster -45 to -105 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

