

Picture Tube

LOW-VOLTAGE ELECTROSTATIC FOCUS

NO ION-TRAP MAGNET REQUIRED

ALUMINIZED SCREEN

RECTANGULAR GLASS TYPE

110° 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.	{ 2500 max. 2000 min.	pf
Heater Current at 6.3 volts.	600 ± 30	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.)	75%

Mechanical:

Weight (Approx.)	25 lbs
Overall length	14.875" ± .281"
Neck length.	5.125" ± .125"
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 <i>Dimensional-Outlines</i> and <i>Bulb J187 E</i>	
at front on this section	

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

Base Small-Button Neoeightar 7-Pin,
Arrangement 1, (JEDEC No.R7-208) or (JEDEC No. B7-237)

Basing Designation for BOTTOM VIEW 8HR

Pin 1—Heater

Pin 2—Grid No.1

Pin 3—Grid No.2

Pin 4—Grid No.4

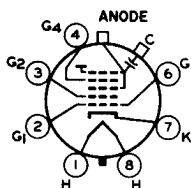
Pin 6—Grid No.1

Pin 7—Cathode

Pin 8—Heater

Cap—Anode (Grid No.3,
Grid No.5, Screen,
Collector)

C—External Conductive
Coating



23DBP4

Maximum and Minimum Ratings, Design-Maximum Values:

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

Anode Voltage.	{ 22000 max. 15000 min.	volts volts
Grid-No.4 (Focusing) Voltage:		
Positive value	1250 max.	volts
Negative value	400 max.	volts
Grid-No.2 Voltage.	250 max.	volts
Grid-No.2 to Cathode Voltage	{ 100 max. 40 min.	volts volts
Cathode Voltage:		
Positive peak value.	220 max.	volts
Positive bias value.	155 max.	volts
Negative bias value.	0 max.	volts
Negative peak value.	2 max.	volts
Heater Voltage	{ 6.9 max. 5.7 min.	volts volts
Peak Heater-Cathode Voltage:		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds		
After equipment warm-up period	450 max.	volts
Heater positive with respect to cathode .	300 max.	volts
	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.	18000	volts
Grid-No.4 Voltage.	250	volts
Grid-No.2 Voltage.	50	volts
Cathode Voltage for		
visual extinction of		
focused raster	34 to 52	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 on this Section

