

Picture Tube

NO ION-TRAP MAGNET REQUIRED
LOW-VOLTAGE ELECTROSTATIC FOCUS 110° MAGNETIC DEFLECTION

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.	$\begin{cases} 2500 \text{ max} \\ 1700 \text{ min} \end{cases}$	$\begin{cases} \text{pF} \\ \text{pF} \end{cases}$
Heater Current at 6.3 V.	600 ± 30	mA
Heater Warm-up Time (Average).	11	s
Electron Gun	Type Requiring No Ion-Trap Magnet	

OPTICAL

Phosphor	P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate.	Filterglass
Light transmission (Approx.)	76%

MECHANICAL

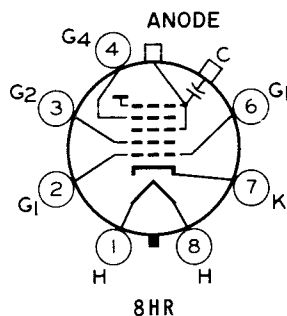
Weight (Approx.)	25 lb
Overall Length	14.875 ± 0.281 in
Neck Length.	5.125 ± 0.125 in
Projected Area of Screen	282 sq in
External Conductive Coating	

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 E* 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)

TERMINAL DIAGRAM (Bottom View)

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



MAXIMUM AND MINIMUM RATINGS, DESIGN-MAXIMUM VALUES

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

Anode Voltage.	{ 22000 max 12000 min	V V
Grid-No.4 (Focusing) Voltage		
Positive value	1100 max	V
Negative value	550 max	V
Grid-No.2 Voltage.	{ 550 max 200 min	V V
Grid-No.1 Voltage		
Negative peak value.	220 max	V
Negative bias value.	155 max	V
Positive bias value.	0 max	V
Positive peak value.	2 max	V
Heater Voltage	{ 6.9 max 5.7 min	V V
Peak Heater-Cathode Voltage		
Heater negative with respect to cathode:		
During equipment warm-up period not exceeding 15 seconds.	450 max	V
After equipment warm-up period	200 max	V
Heater positive with respect to cathode:		
Combined AC and DC voltage	200 max	V
DC component	100 max	V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

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

Anode Voltage.	16000	V
Grid-No.4 Voltage.	0 to 400	V
Grid-No.2 Voltage.	400	V
Cathode Voltage.	43 to 78	V
For visual extinction of focused raster		

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance	1.5 max	MΩ
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