

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	{ 2500 max 1700 min	pF
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

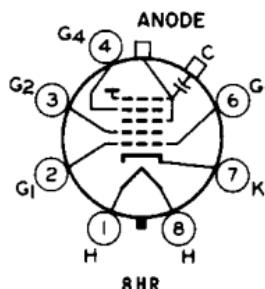
See Picture-Tube Dimensional-Outlines and Bulb J187 E sheets
at front of this section

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

Base Small-Button Neoeightar 7-Pin,
Arrangement I (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
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Grid-No.4 (Focusing) Voltage

Positive value	1100 max	V
Negative value	550 max	V

Grid-No.2 Voltage.	{ 550 max 200 min	V
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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
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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
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Grid-No.4 Voltage.	0 to 400	V
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Grid-No.2 Voltage.	400	V
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Cathode Voltage.	43 to 78	V
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For visual extinction of focused raster

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance	1.5 max	MΩ
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