

19DAP4

Picture Tube

RECTANGULAR GLASS TYPE WITH INTEGRAL PROTECTIVE WINDOW
LOW-VOLTAGE ELECTROSTATIC FOCUS 114° MAGNETIC DEFLECTION

NO ION-TRAP MAGNET REQUIRED

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 ^a	1000 min—1500 max	pF
Heater Current at 6.3 V	450 ± 20	mA
Heater Warm-up Time (Average)	11	s
Electron Gun	Type Requiring No Ion-Trap Magnet	

OPTICAL

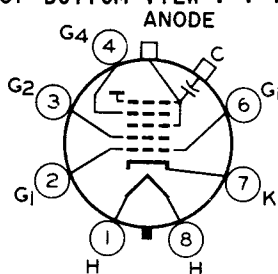
Phosphor	P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate and Protective Window.	Filterglass
Light transmission (Approx.)	60%
Surface of Protective Window.	Treated to Reduce Specular Reflection

MECHANICAL

Weight (Approx.)	15.5 lb
Overall Length	11.562 ± 0.312 in
Neck Length.	4.125 ± 0.125 in
Projected Area of Screen	172 sq in
External Conductive Coating	

Type (see CRT OUTLINES 1 at front of this section)	Regular-Band
Contact area for grounding	Near Reference Line
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

- 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

Voltages are positive with respect to cathode

Anode Voltage.	15000 min—23000 max	V
Grid-No.4 Voltage		
Positive value	1100 max	V
Negative value	550 max	V
Grid-No.2 Voltage.	200 min—500 max	V
Grid-No.1 Voltage		
Negative peak value.	220 max	V
Negative bias value.	155 max	V



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DATA
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Positive bias value.	0 max	V
Positive peak value.	2 max	V
Heater Voltage	5.7 min—6.9 max	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 warmup period.	200 max	V
Heater positive with respect to cathode. . .	200 max	V

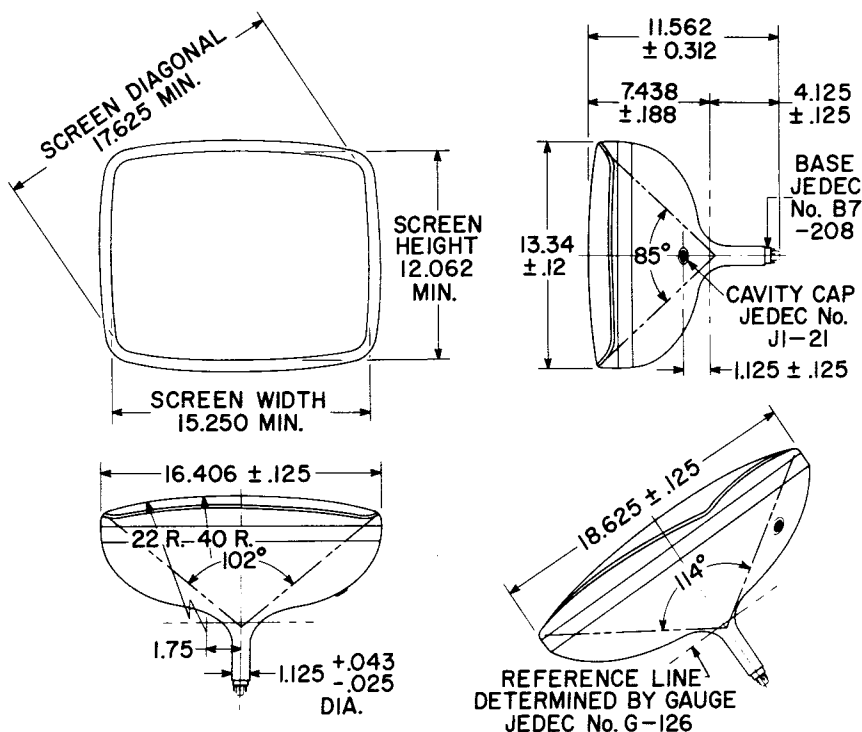
Voltages are positive with respect to grid No.1

Anode Voltage.	20000	V
Grid-No.4 Voltage.	0 to 400	V
Grid-No.2 Voltage.	400	V
Cathode Voltage.	42 to 78	V

For visual extinction of focused raster

Grid-No.1 Circuit Resistance 1.5 max MΩ

(BULB J149 CI AND PROTECTIVE WINDOW FPI49)



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DIMENSIONS IN INCHES