

Picture Tube

PAN-O-PLY TYPE WITH MOUNTING LUGS

114° 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. .1250 min—1750 max		pF
Heater Current at 6.3 V	450	mA
Heater Warm-Up Time (Average)	11	s
Electron Gun.	Type Requiring No Ion-Trap Magnet	

OPTICAL

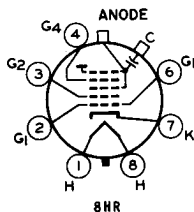
Phosphor.P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate	Filterglass
Light transmission at center (Approx.). 48%	

MECHANICAL

Weight (Approx.).	15 lb
Overall Length.	11.625 ± .250 in
Neck Length	4.375 ± .125 in
Projected Area of Screen.	172 sq in
External Conductive Coating ^a	
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)

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

Voltages are positive with respect to cathode

Anode Voltage.	11000 min—23000 max	V
Grid-No.4 Voltage		
Positive value	1100 max	V
Negative value	550 max	V
Grid-No.2 Voltage.	200 min—550 max	V



19GE4A

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 5.7 min—6.9 max V

Peak Heater-Cathode Voltage

Heater negative with respect to cathode:		
During equipment warm-up period ≤ 15 s	450 max	V
After equipment warm-up period	300 max	V
Heater positive with respect to cathode:		
Combined AC & DC voltage	200 max	V
DC component	100 max	V

TYPICAL OPERATING CONDITIONS FOR CATHODE-DRIVE SERVICE

Voltages are positive with respect to grid No.1

Anode Voltage.	16000	V
Grid-No.4 Voltage.	0 to 400	V
Grid-No.2 Voltage.	300	V
Cathode Voltage.	28 to 62	V

For visual extinction of focused raster

Field Strength 0 to 8 G

Of required adjustable centering magnet

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance 1.5 max M Ω

^a Includes implosion protection hardware.

See X-RADIATION PRECAUTIONS at front of this section

DIMENSIONAL OUTLINE (JEDEC BULB J149F2A)

