

Picture Tube

PAN-O-PLY TYPE
 90° MAGNETIC DEFLECTION LOW-GRID-No.2 VOLTAGE

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	300 min—750 max	pF
Heater Current at 12V.	75 ± 7	mA
Heater Warm-Up Time (Average).	11	s
Electron Gun	Type Requiring No Ion-Trap Magnet	

OPTICAL

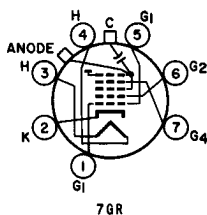
Phosphor	P4—Sulfide Type, Aluminized
For curves, see front of this section	
Faceplate.	Filterglass
Light transmission at center (Approx.)	49.5%

MECHANICAL

Weight (Approx.)	3.1 lb
Overall Length	8.28 max in
Neck Length.	3.55 max in
Projected Area of Screen	38 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 Special Miniature 7-Pin (JEDEC No. E7-91)

TERMINAL DIAGRAM (Bottom View)

- Pin 1—Grid No.1
- Pin 2—Cathode
- Pin 3—Heater
- Pin 4—Heater
- Pin 5—Grid No.1
- Pin 6—Grid No.2
- Pin 7—Grid No.4
- Cap—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.	8000 min—12000 max	V
Grid-No.4 Voltage		
Positive value	1100 max	V
Negative value	550 max	V
Grid-No.2 Voltage.	75 min—250 max	V



9WP4

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 10.8 min—13.2 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 . . .	200 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.	9000	V
Grid-No.4 Voltage.	0 to 300	V
Grid-No.2 Voltage.	100	V
Cathode Voltage.	32 to 50	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 Ω

^a Includes implosion protection hardware.

DIMENSIONAL OUTLINE (BULB J71-1/2 B1)

