

Picture Tube

90° MAGNETIC DEFLECTION

PAN-O-PLY TYPE

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 $\pm$ 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

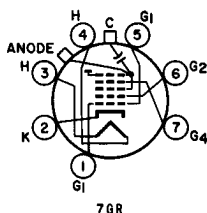
Pin 3—Heater

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, CollectorC—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



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 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

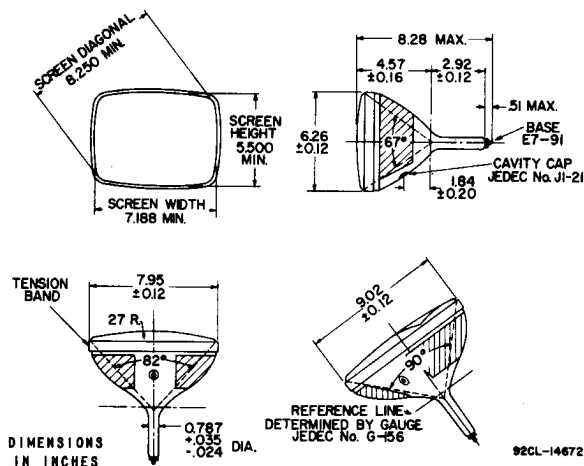
Anode Voltage.	9000	V
Grid-No.4 Voltage.	0 to 300	V
Grid-No.2 Voltage.	100	V
Cathode Voltage.	32 to 50	V
For visual extinction of focused raster		
Field Strength	0 to 8	G
Of required adjustable centering magnet		

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance 1.5 max M Ω

* Includes implosion protection hardware.

DIMENSIONAL OUTLINE (BULB J71-1/2 B1)



92CL-14672