

Picture Tube

PAN-0-PLY TYPE

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 ^a	.600 min—1200 max	pF
Heater Current at 4.2 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.)	50%

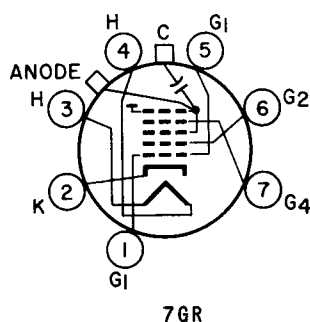
MECHANICAL

Weight (Approx.)	5.5 lb
Overall Length	9.54 max in
Neck Length.	4.10 max in
Projected Area of Screen	72 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 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—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 Grid No.1

Anode Voltage.	8000 min—14000 max	V
Grid-No.4 Voltage		
Positive value	1250 max	V
Negative value	400 max	V
Grid-No. Voltage	150 min—400 max	V



12CNP4

Cathode Voltage

Negative peak value.	2 max	V
Negative bias value.	0 max	V
Positive bias value.	100 max	V
Positive peak value.	150 max	V

Heater Voltage 3.8 min—4.6 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. 10000 V

Grid-No.4 Voltage. 0 to 400 V

Grid-No.2 Voltage. 200 V

Cathode Voltage. 25 to 55 V

For visual extinction of focused raster

Field Strength 0 to 8 G

Of required adjustable centering magnet

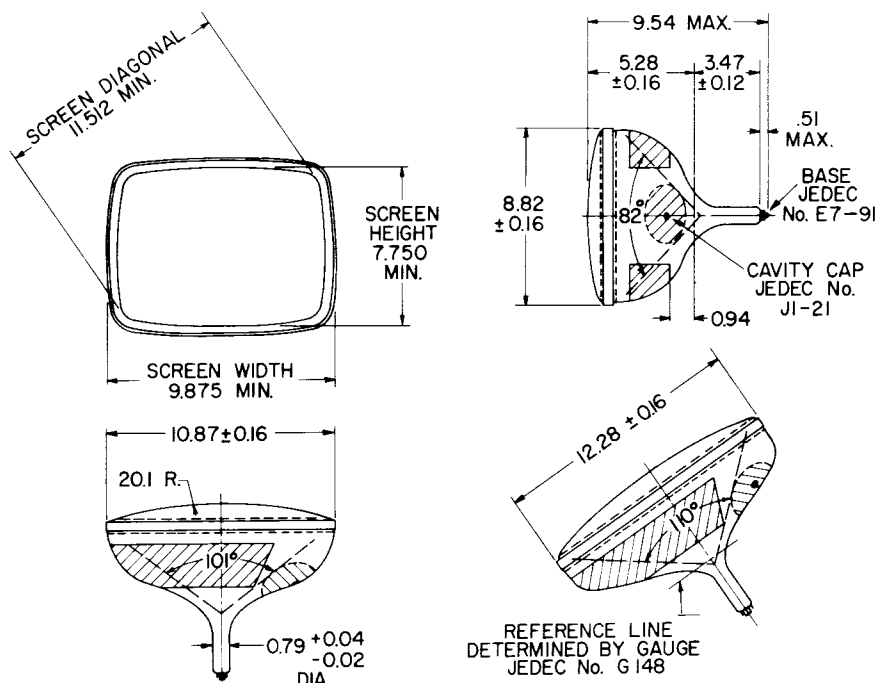
MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance 1.5 max $M\Omega$

^a Includes implosion protection hardware.

See X-RADIATION PRECAUTIONS at front of this section

DIMENSIONAL OUTLINE (JEDEC BULB J97-3/4 E1)



DIMENSIONS IN INCHES

92CL-14673

