

Picture Tube

RECTANGULAR GLASS TYPE
MAGNETIC FOCUS

ALUMINIZED SCREEN
70° 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. . .	{ 750 max. 500 min.	{ pf pf
Heater Current at 6.3 volts	600 ± 60	ma
Electron Gun.	Type Requiring No Ion Trap Magnet	

Optical:

Phosphor (For Curves, see front of this section). P4—Sulfide Type,
Aluminized
Faceplate, Cylindrical. Filterglass
Light transmission (Approx.). 74%

Mechanical:

Weight (Approx.). 29 lbs
Overall Length. 23-1/32" ± 3/8"
Neck Length 7-1/2" ± 3/16"
Projected Area of Screen. 248 sq. in.
External Conductive Coating:

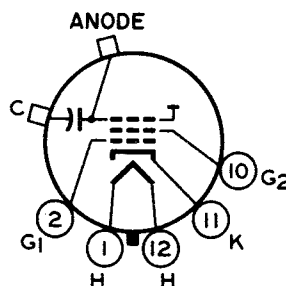
Type. Regular-Band
Contact area for grounding. Near Reference Line
For Additional Information on Coatings and Dimensions:

See *Picture-Tube Dimensional-Outlines and Bulb J170 A/C* sheets
at front of this section

Cap Recessed Small Cavity (JEDEC No.J1-21)
Base. Small-Shell Duodecal 5-Pin (JEDEC Group 4,
No.B5-57)

Basing Designation for BOTTOM VIEW. 12N

Pin 1—Heater
Pin 2—Grid No.1
Pin 10—Grid No.2
Pin 11—Cathode
Pin 12—Heater



Cap—Anode
(Grid No.3,
Screen,
Collector)
C—External
Conductive
Coating



21EP4C

Maximum and Minimum Ratings, Design-Maximum Values:

Unless otherwise specified, voltage values are positive with respect to cathode

ANODE VOLTAGE	20000 max.	volts
GRID-No.2 VOLTAGE	550 max.	volts
GRID-No.1 VOLTAGE:		
Negative peak value	220 max.	volts
Negative bias value	155 max.	volts
Positive bias value	0 max.	volts
Positive peak value	2 max.	volts
HEATER VOLTAGE.	{ 6.9 max.	volts
	{ 5.7 min.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode:		
During equipment warm-up period		
not exceeding 15 seconds.	450 max.	volts
After equipment warm-up period. . .	200 max.	volts
Heater positive with respect to cathode:		
Combined AC and DC voltage.	200 max.	volts
DC component.	100 max.	volts

Typical Operating Conditions for Grid-Drive Service:

Unless otherwise specified, voltage values are positive with respect to cathode

Anode Voltage	12000	volts
Grid-No.2 Voltage	300	volts
Grid-No.1 Voltage for visual extinction of focused raster.	-28 to -72	volts

Maximum Circuit Value:

Grid-No.1-Circuit Resistance.	1.5 max.	megohms
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For X-radiation shielding considerations, see sheet
X-RADIATION PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section

