



27RP4

PICTURE TUBE

RECTANGULAR GLASS TYPE
MAGNETIC FOCUSALUMINIZED SCREEN
MAGNETIC DEFLECTION

27RP4

DATA

General:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	0.6 ± 10%	amp

Capacitance between External Conductive

Coating and Ultor	{ 2500 max.	μμf
	{ 500 min.	μμf

Faceplate, Spherical Filterglass

Phosphor (For curves, see front of this section) . . P4—Sulfide Type
Aluminized

Deflection Angles (Approx.):

Diagonal	90°
Horizontal	85°
Vertical	69°

Electron Gun Ion-Trap Type Requiring
External Single-Field Magnet

Tube Dimensions:

Overall length	23-1/16" ± 3/8"
Greatest width	25-9/32" ± 3/16"
Greatest height	20-7/32" ± 3/16"
Diagonal	26-13/16" ± 3/16"
Neck length	7-1/2" ± 3/16"
Radius of curvature of faceplate (External surface)	40"

Screen Dimensions (Minimum):

Greatest width	24-1/4"
Greatest height	18-5/8"
Diagonal	25-3/4"
Projected area	425 sq. in.

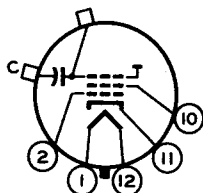
Operating Position Any

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—Ultor
(Grid No.3,
Collector)
C—External
Conductive
Coating

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE	20000 max.	volts
GRID-No.2 VOLTAGE	500 max.	volts
GRID-No.1 VOLTAGE:		
Negative-peak value	200 max.	volts
Negative-bias value	140 max.	volts
Positive-bias value	0 max.	volts
Positive-peak value	2 max.	volts

27RP4



27RP4

PICTURE TUBE

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with
respect to cathode:

During equipment warm-up period
not exceeding 15 seconds. . . .

410 max. volts

After equipment warm-up period. .

180 max. volts

Heater positive with

respect to cathode.

180 max. volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance.

1.5 max. megohms

*For X-ray shielding considerations, see sheet
X-RAY PRECAUTIONS FOR CATHODE-RAY TUBES
at front of this Section*