



21EAP4

21EAP4 PICTURE TUBE

SHORT RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS

ALUMINIZED SCREEN
MAGNETIC DEFLECTION

With heater having controlled warm-up time

DATA

General:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	2.35 $\pm$ 10%	volts
Current at 2.35 volts	0.6	amp
Warm-up time (Average)	11	sec

Capacitance between External Conductive

Coating and Ultor	{ 2000 max.	μ uf
	{ 1500 min.	μ uf

Faceplate, Spherical Filterglass

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

Deflection Angles (Approx.):

Diagonal	110°
Horizontal	105°
Vertical	87°

Electron Gun Type Requiring No Ion-Trap Magnet

Tube Dimensions:

Overall length	12-15/16" $\pm$ 1/4"
Greatest width	20-1/4" $\pm$ 1/8"
Greatest height	16-3/8" $\pm$ 1/8"
Diagonal	21-3/8" $\pm$ 1/8"
Neck length	3-11/16" $\pm$ 1/16"
Radius of curvature of faceplate (External surface)	28-1/2"

Screen Dimensions (Minimum):

Greatest width	19-1/16"
Greatest height	15-1/16"
Diagonal	20-1/4"
Projected area	262 sq. in.

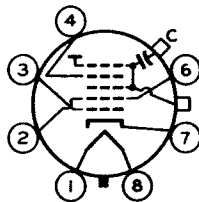
Operating Position Any

Cap Recessed Small Cavity (JEDEC No. J1-21)

Base Small-Button Neeoightar 7-Pin,
Arrangement 1 (JEDEC No. B7-208)

Basing Designation for BOTTOM VIEW 8JK

Pin 1—Heater
Pin 2—Grid No.2
Pin 3—Grid No.1
Pin 4—Grid No.4
Pin 6—Grid No.2
Pin 7—Cathode
Pin 8—Heater



Cap—Ultor
(Grid No.3,
Grid No.5,
Collector)
C—External
Conductive
Coating

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE	18000 max.	volts
GRID-No.4 (FOCUSING) VOLTAGE:		
Positive value	850 max.	volts
Negative value	630 max.	volts
GRID-No.2 VOLTAGE	500 max.	volts

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GRID-No.1 VOLTAGE:

Negative-peak value	360 max.	volts
Negative-bias value	140 max.	volts
Positive-bias value	0 max.	volts
Positive-peak value	2 max.	volts

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