



8DP4

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PICTURE TUBE

SMALL, COMPACT, RECTANGULAR GLASS TYPE
LOW-VOLTAGE ELECTROSTATIC FOCUS MAGNETIC DEFLECTION

DATA

General:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	0.6 ± 10%	amp
Capacitance between External Conductive Coating and Ultor	{ 350 max. $\mu\mu$ f 250 min. $\mu\mu$ f	

Faceplate, Spherical Filterglass

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

Deflection Angles (Approx.):

Diagonal	90°
Horizontal	85°
Vertical	68°

Electron Gun	Ion-Trap Type Requiring External Single-Field Magnet
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Tube Dimensions:

Overall length	10-7/16" ± 5/16"
Greatest width	7-7/8" + 1/16" - 1/32"
Greatest height	6-1/16" + 1/16" - 1/32"
Diagonal	8-7/16" + 1/16" - 1/32"

Neck length	6-1/2" ± 3/16"
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Radius of curvature of faceplate (External surface)	27"
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Screen Dimensions (Minimum):

Greatest width	7-3/16"
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Greatest height	5-3/8"
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Diagonal	7-13/16"
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Projected area	35.5 sq. in.
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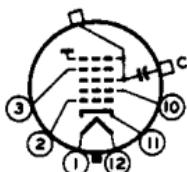
Operating Position Any

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

Base . Dwarf-Shell Duodecal 6-Pin (JETEC Group 4, No.B6-158)

Basing Designation for BOTTOM VIEW 12AB

Pin 1—Heater
 Pin 2—Grid No.1
 Pin 3—Grid No.4
 Pin 10—Grid No.2
 Pin 11—Cathode
 Pin 12—Heater



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

Maximum Ratings, Design-Center Values:

ULTOR VOLTAGE 8000 max. volts

GRID-No.4 (FOCUSING) VOLTAGE:

Positive value	500 max. volts
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Negative value	500 max. volts
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GRID-No.2 VOLTAGE	300 max. volts
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→ Indicates a change.

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GRID-No.1 VOLTAGE:

Negative-peak value.	130 max.	volts
Negative-bias value.	100 max.	volts
Positive-bias value.	0 max.	volts
Positive-peak value.	2 max.	volts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode.	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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