-- TUNG.SOL ---

CATHODE RAY

THE 24DP4 AND 24DP4A ARE DIRECT-VIEW PICTURE TUBES DESIGNED FOR USE IN TELEVISION APPLICATIONS. THEY ARE IDENTICAL EXCEPT THAT THE 24DP4A HAS AN ALUMINIZED SCREEN. THEIR COMMON FEATURES INCLUDE:

> ELECTROSTATIC FOCUS SPHERICAL FACEPLATE GREY FILTER FACEPLATE RECTANGULAR GLASS CONSTRUCTION

MAGNETIC DEFLECTION UNIPOTENTIAL CATHODE EXTERNAL CONDUCTIVE COATING EXTERNAL SINGLE FIELD ION TRAP 21 7/8" X 16 7/8" RASTER SIZE

ELECTRICAL DATA

ELEUTRIONE DATA	
FOCUSING METHOD	ELECTROSTATIC
DEFLECTING METHOD	MAGNETIC
DEFLECTION ANGLE (APPROX.):	
HORIZONTAL 85	DEGREES
VERTICAL 68	DEGREES
DIAGONAL 90	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):	
CATHODE TO ALL OTHER ELECTRODES 5	μμ f
GRID #4 TO ALL OTHER ELECTRODES 6	μμf
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE 750	μμf
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE 500	μμf
OPTICAL DATA	
PHOSPHOR NUMBER	NO. 4
FLUORESCENT COLOR	WHITE
PHOSPHORESCENT COLOR	WHITE
PERSISTENCE	MEDIUM
FACEPLATE LIGHT TRANSMISSION AT CENTER (APPROX.) 73	PERCENT
MECHANICAL DATA	
OVERALL LENGTH 21 $1/8 \pm 3/8$	INCHES
GREATEST DIMENSIONS OF BULB:	
DIAGONAL 24	INCHES
WIDTH 22 11/16	INCHES
HEIGHT 18 $7/16 \pm 1/8$	INCHES
MINIMUM USEFUL SCREEN DIMENSIONS:	
wipth 21 7/8	INCHES
HEIGHT 16 7/8	INCHES
= -	

PIN CONNECTIONS

J1-21 CONTACT ALIGNS WITH PIN POSITION #6 \pm 30 DEGREES

PIN 1 - HEATER PIN 2 - GRID NO. 1 PIN 6 - GRID NO. 4 PIN 10 - GRID NO. 2

BULB CONTACT ALIGNMENT

BULB CONTACT

BASE

BASING



PIN 11 - CATHODE PIN 12 - HEATER ANODE CAP: GRID NO. 3

J1-21

86-63

12L

BOTTOM VIEW

CONTINUED ON FOLLOWING PAGE

RECESSED SMALL CAVITY CAP

SMALL SHELL DUODECAL 6 PIN

CONTINUED FROM PRECEDING PAGE

RATINGS DESIGN CENTER VALUES

HEATER VOLTAGE HEATER CURRENT MAXIMUM DC ANODE, GRID #3 VOLTAGE MAXIMUM DC GRID #2 VOLTAGE: MAXIMUM GRID #4 VOLTAGE:	6.3 0.6 20 000 500	VOLTS AMP. VOLTS VOLTS
DC NEGATIVE-BIAS VALUE DC POSITIVE-BIAS VALUE POSITIVE-PEAK VALUE MAXIMUM DC GRID #4 VOLTAGE MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:A HEATER NEGATIVE WITH RESPECT TO CATHODE	125 0 2 -500 to +1000	VOLTS VOLTS VOLTS VOLTS
DURING WARM—UP PERIOD NOT TO EXCEED 15 AFTER EQUIPMENT WARM—UP PERIOD HEATER POSITIVE WITH RESPECT TO CATHODE	seconds 410 180 180	VOLTS VOLTS VOLTS

ACATHODE SHOULD BE RETURNED TO ONE SIDE OR TO THE MID-TAP OF THE HEATER TRANSFORMER WINDING.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE, GRID #3 VOLTAGE	18 000	VOLTS
DC GRID #2 VOLTAGE	300	VOLTS
DC GRID #1 VOLTAGE ^B	-33 r o -77	VOLTS
DC GRID #4 VOLTAGE	-72 TO +400	VOLTS
DC ION TRAP CURRENT STANDARD COIL #411 (APPROX.)	100 ± 50%	MA.

 $[\]mathsf{B}_{\mathsf{V}}$ is ual extinction of undeflected focused spot.

CIRCUIT VALUES

MAXIMUM GRID #1 CIRCUIT RESISTANCE 1.5 MEGOHMS

MTE 0 14 C. B. A.