

TUNG-SOL**CATHODE RAY**

THE 15DP4 AND 15DP4A ARE DIRECT BIEW PICTURE TUBES DESIGNED FOR TELEVISION APPLICATIONS. THE TUBES ARE IDENTICAL *EXCEPT* FOR THE GRAY FILTER FACEPLATE USED ON THE 15DP4. THEIR COMMON FEATURES INCLUDE:

UNIPOTENTIAL CATHODE 12 3/4" X 9 1/2" RASTER SIZE
EXTERNAL SINGLE FIELD ION TRAP MAGNETIC FOCUS AND DEFLECTION

ELECTRICAL DATA

FOCUSING METHOD			MAGNETIC
DEFLECTING METHOD			MAGNETIC
DEFLECTION ANGLE (APPROX.)	57		DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):			
CATHODE TO ALL OTHER ELECTRODES	5		$\mu\mu\text{f}$
GRID #1 TO ALL OTHER ELECTRODES	7		$\mu\mu\text{f}$

OPTICAL DATA

PHOSPHOR NUMBER	SULFIDE TYPE	P-4
FLUORESCENT COLOR		WHITE
PHOSPHORESCENT COLOR		WHITE
PERSISTENCE		MEDIUM

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6 $\pm 10\%$	AMP.
MAXIMUM DC ANODE VOLTAGE	15 000	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	410	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
DC NEGATIVE-BIAS VALUE	125	VOLTS
DC POSITIVE-BIAS VALUE	0	VOLTS
POSITIVE PEAK VALUE	2	VOLTS
MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE: ^A		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
DURING WARM-UP PERIOD NOT TO EXCEED 15 SECONDS	410	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	140	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	140	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEG OHMS
DC ANODE VOLTAGE	13 000	VOLTS
DC GRID #2 VOLTAGE	250	VOLTS
DC GRID #1 VOLTAGE ^B	-27 to -63	VOLTS
DC FOCUSING COIL CURRENT (APPROX.) ^C	146	MA.
DC ION TRAP MAGNET STANDARD COIL #108 (APPROX.)	105	MA.

^A CATHODE SHOULD BE TURNED TO ONE SIDE OR TO THE MID-TAP OF THE HEATER TRANSFORMER WINDING.

^B VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.

^C FOR STANDARD FOCUS COIL #106, OR EQUIVALENT, WITH THE COMBINED GRID #1 BIAS VOLTAGE AND VIDEO-SIGNAL VOLTAGE ADJUSTED TO PRODUCE A HIGHLIGHT BRIGHTNESS OF 38 FOOT LAMBERTS ON A 9 1/2" BY 12 3/4" PICTURE SIZE. DISTANCE FROM REFERENCE LINE TO CENTER OF AIR GAP ON FOCUS COIL SHALL BE 3.0 INCHES.

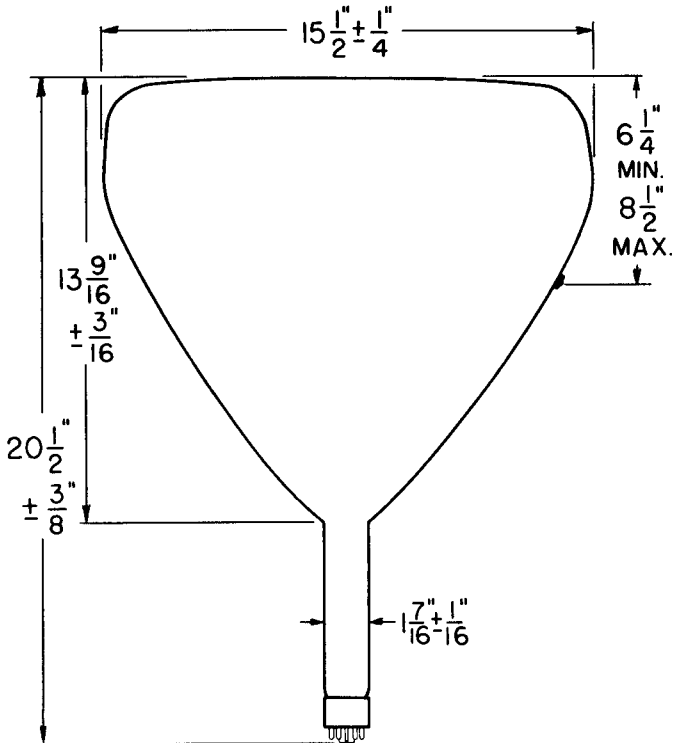
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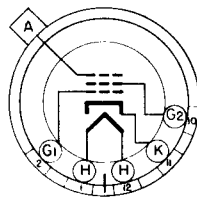
MECHANICAL DATA

OVERALL LENGTH	20 1/2 ± 3/8	INCHES
GREATEST DIAMETER OF BULB	15 1/2 ± 1/4	INCHES
MIN. USEFUL SCREEN DIAMETER	14	INCHES
BULB CONTACT	RECESSED SMALL BALL CAP	J1-22
BASE	SMALL SHELL DUODECAL 5 PIN	B7-51
BASING		12D
BULB CONTACT ALIGNMENT		
J1-22 CONTACT ALIGNS WITH PIN POSITION #3 ± 10 DEGREES		



PIN CONNECTIONS

- PIN 1 - HEATER
- PIN 2 - GRID #1
- PIN 10 - GRID #2
- PIN 11 - CATHODE



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

BOTTOM VIEW