TUNG-SOL

HIGH VACUUM CATHODE-RAY TUBE

ELECTROSTATIC DEFLECTION AND FOCUSING

5CP1	5CP4
NO. 1 PHOSPHOR GREEN FLUORESCENT SCREEN MEDIUM PERSISTENCE	NO. 4 PHOSPHOR WHITE FLUORESCENT SCREEN MEDIUM PERSISTENCE

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMPERE
AC OR DC

GLASS BULB

MEDIUM SHELL DIHEPTAL 12 PIN BASE

RATINGS*

MAXIMUM ANODE NO. 3 VOLTAGE (SUPPLEMENTARY HIGH VOLTAGE ELECTRODE)	4400	VOLTS
MAXIMUM ANODE NO. 2 VOLTAGE (HIGH VOLTAGE ELECTRODE)	2200	VOLTS
MAXIMUM ANODE NO. 1 VOLTAGE (FOCUSING ELECTRODE)	1100	VOLTS
GRID VOLTAGE (CONTROL ELECTRODE)	NEVER POSITIVE	
MAXIMUM PEAK VOLTAGE BETWEEN ANODE NO. 2 AND ANY DEFLECTOR	550	VOLTS
MAXIMUM DC HEATER CATHODE POTENTIAL[A]	125	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE	1.5	MEGOHMS
MAXIMUM IMPEDANCE OF ANY DEFLECTOR CIRCUIT AT HEATER SUPPLY FREQUENCY	1.0	MEGOHM

*MAXIMUM RATINGS ARE ABSOLUTE VALUES

DIRECT INTERELECTRODE CAPACITANCES (APPROX.)

GRID TO ALL OTHER ELECTRODES	8.0	μμf
CATHODE TO ALL OTHER ELECTRODES	8.0	μμf
D1 TO D2	2.0	μμf
D3 TO D4	2.0	μμf
D1 TO ALL OTHER ELECTRODES	9.0	μμf
D3 TO ALL OTHER ELECTRODES	7.0	μμf
D1 TO ALL OTHER ELECTRODES EXCEPT D2	7.0	μμf
D2 TO ALL OTHER ELECTRODES EXCEPT D1	7.0	μμf
D3 TO ALL OTHER ELECTRODES EXCEPT D4	5.0	μμf
D4 TO ALL OTHER ELECTRODES EXCEPT D3	6.0	μμf

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

ANODE NO. 3 VOLTAGE	2000	3000	4000	VOLTS
ANODE NO. 2 VOLTAGE[B]	2000	1500	2000	VOLTS
ANODE NO. 1 VOLTAGE FOR FOCUS AT 75% OF GRID VOLTAGE CUT-OFF[C]	575	430	575	VOLTS
GRID VOLTAGE FOR CUT-OFF[D]	-60[E]	-45[E]	-60[E]	VOLTS
DEFLECTION SENSITIVITY:[F]				
D1 AND D2	0.350	0.370	0.280	MM/VOLT DC
D3 AND D4	0.390	0.450	0.340	MM/VOLT DC
DEFLECTION FACTOR[F]				
D1 AND D2	73	69	92	VOLTS DC/IN
D3 AND D4	64	56	74	VOLTS DC/IN

SPOT POSITION AND TEST CONDITIONS

THE UNDEFLECTED FOCUSED SPOT FALLS WITHIN A 25 MM. SQUARE CENTERED ON THE TUBE FACE.

TEST CONDITIONS ARE:

ANODE NO. 3 VOLTAGE	4000	VOLTS
ANODE NO. 2 VOLTAGE	2000	VOLTS
ANODE NO. 1 VOLTAGE	ADJUSTED FOR FOCUS	
GRID VOLTAGE	NEAR CUT-OFF	
DEFLECTOR RESISTORS (CONNECTED TO ANODE NO. 2)	1 MEGOHM EACH	

NOTE: SHIELD TUBE FROM ALL STRAY FIELDS.

[A] WHEN THE HEATER IS OPERATED AT A NEGATIVE POTENTIAL WITH RESPECT TO THE CATHODE THEN THE CATHODE RETURN SHOULD BE MADE AT THE CENTER TAP OF THE FILAMENT TRANSFORMER.

[B] USE OF LESS THAN 1500 VOLTS RESULTS IN DECREASED BRILLIANCE.

[C] CERTAIN TUBES MAY REQUIRE ADJUSTMENT OF +25% TO -30% WITH GRID VOLTAGE BETWEEN ZERO AND CUT-OFF.

[D] THE VISUAL EXTINCTION OF A FOCUSED SPOT.

[E] THE GRID SUPPLY SHOULD BE VARIABLE TO ± 50%.

[F] VALUES SUBJECT TO VARIATION OF ± 20%.

DEFLECTOR LOCATIONS:

D1 AND D2	NEAREST TO SCREEN
D3 AND D4	NEAREST TO BASE
D1	SAME SIDE OF TUBE AS PIN NO. 6
D3	SAME SIDE AS PIN NO. 2

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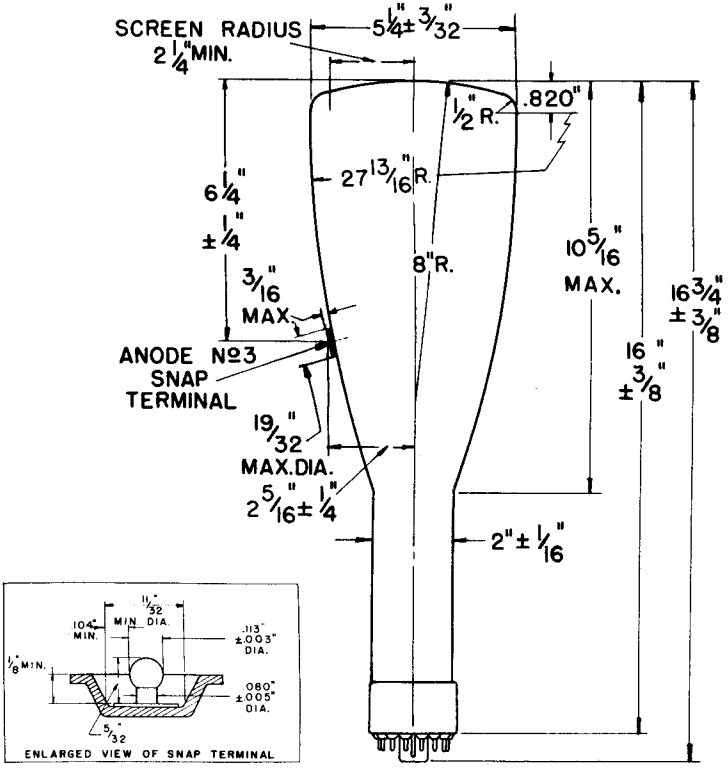

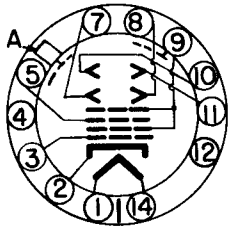

BOTTOM VIEW

1. HEATER
2. CATHODE
3. GRID NO. 1
4. INTERNAL CONNECTION (DO NOT USE)
5. ANODE NO. 1
7. DEFLECTOR NO. 3 (D3)
8. DEFLECTOR NO. 4 (D4)
9. GRID NO. 2 ANODE NO. 2
10. DEFLECTOR NO. 2 (D2)
11. DEFLECTOR NO. 1 (D1)
12. NO CONNECTION
14. HEATER

A. ANODE NO. 3 (SNAP TERMINAL)

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