TUNG-SOL ---

CATHODE RAY

THE 21BNP4 IS A DIRECT VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ELECTROSTATIC FOCUS
MAGNETIC DEFLECTION
19 1/8" X 15" RASTER SIZE
GREY FILTERGLASS FACEPLATE

UNIPOTENTIAL CATHODE ALUMINIZED SCREEN EXTERNAL CONDUCTIVE COATING REQUIRES NO ION TRAP MAGNET

ELECTRICAL DATA

FOCUSING METHOD DEFLECTING METHOD	ELECTROSTATIC MAGNETIC	
DEFLECTION ANGLE (APPROX.):		MAGNETIC
HOR IZONTAL VERTICAL	85 68	DEGREES DEGREES
DIAGONAL DIRECT INTERELECTRODE CAPACITANCES (APPROX.):	90	DEGREES
CATHODE TO ALL OTHER ELECTRODES GRID #4 TO ALL OTHER ELECTRODES MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	5 6 1500 1200	μμ f μμ f μμ f μμ f

OPTICAL DATA

PHOSPHOR NUMBER	SULFIDE TYPE	P-4
FLUCRESCENT COLOR		WHÎTE
PHOSPHORESCENT COLOR		WHITE
PERSISTENCE		SHORT
FACEPLATE TRANSMISSION AT CENTER (APPROX.):	71	PERCENT

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6±10%	AMP.
MAXIMUM DC ANODE VOLTAGE	20 000	VOLTS
MAXIMUM DC GRID #4 VOLTAGE -500	TO +1000	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	500	VOLTS
MAXIMUM GRID #4 VOLTAGE:		
DC NEGATIVE-BIAS VALUE	125	VOLTS
DC POSITIVE-BIAS VALUE	0	VOLTS
POSITIVE-PEAK VALUE	2	VOLTS
MAXIMUM DC PEAK HEATER—CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
DURING WARM-UP PERIOD NOT TO EXCEED 45 SECONDS	410	VOLTS
AFTER EQUIPMENT WARM-UP PERIOD	180	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	180	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAG	E , ₹	16 000	VOLTS
DC GRID #4 VCLT	AGE	+50 T o +550	VOLTS
DC GRID #2 VOLT		300	VOLTS
DC GRID #1 VOLT	AGE A	−28 т о −72	VOLTS
DC GRID #4 CURR	ENT	−15 To +25	⊭AMP

 $^{^{\}mathsf{A}}\mathsf{v}\mathsf{i}\mathsf{sual}$ extinction of focused raster.

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21BNP4

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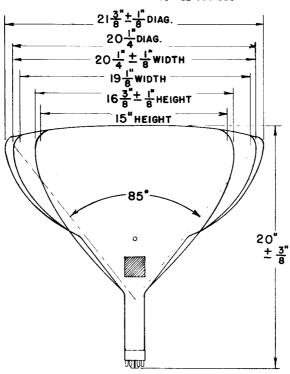
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MECHANICAL DATA

OVERALL LENGTH 20 ± 3/8 INCHES GREATEST DIMENSIONS OF BULB: DIAGONAL 21 3/8 ± 1/8 INCHES WIDTH 20 1/4 ± 1/8 INCHES HEIGHT 16 3/8 ± 1/8 INCHES MIN. USEFUL SCREEN DIMENSIONS: DIAGONAL 20 1/4 INCHES WIDTH 19 1/8 INCHES HEIGHT 15 INCHES BULB CONTACT RECESSED SMALL CAVITY CAP SMALL SHELL DUODECAL 6 PIN BASE B6-63 BASING 12L

BULB CONTACT ALIGNMENT

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



PIN CONNECTIONS

PIN 1 — HEATER
PIN 2 — GRID #1
PIN 6 — GRID #4
PIN 10 — GRID #2
PIN 11 — CATHODE



PIN 12 - HEATER ANODE CAP: GRID NO. 3

GRID NO. 5