- TUNG-SOL -

CATHODE RAY

THE 17BNP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ELECTROSTATIC FOCUS
UNIPOTENTIAL CATHODE
GRAY FILTER FACEPLATE
RECTANGULAR GLASS CONSTRUCTION

ALUMINIZED SCREEN
MAGNETIC DEFLECTION
EXTERNAL CONDUCTIVE COATING
14 5/16" X 11 1/8" RASTER SIZE

DOES NOT REQUIRE ION TRAP

ELECTRICAL DATA

FOCUSING METHOD DEFLECTING METHOD	ELECTROSTATIC	
DEFLECTION ANGLE (APPROX.):		MAGNETIC
HORIZONTAL	85	DEGREES
VERTICAL	68	DEGREES
DIAGONAL	90	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):		
CATHODE TO ALL OTHER ELECTRODES	5	μμf
GRID #1 TO ALL OTHER ELECTRODES	6	$\mu\mu$ f
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	1500	µµ f
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	750	$\mu\mu$ f

OPTICAL DATA

PHOSPHOR NUMBER		P-4
FLUORESCENT COLOR		WHITE
PHOSPHORESCENT COLOR		WHITE
PERSISTENCE		SHORT
FACEPLATE TRANSMISSION AT CENTER (APPROX.):	74	PERCENT

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM CATHODE DRIVE SERVICE

HEATER VOLTAGE 6.3	VOLTS
HEATER CURRENT 0.6	AMP.
MAXIMUM DC ANODE VOLTAGE* 18 000	VOLTS
MAXIMUM DC GRID #4 VOLTAGE -500 TO +1000	VOLTS
MAXIMUM DC GRID #2 VOLTAGE 200	VOLTS
MAXIMUM GRID #1 VOLTAGE:	
DC NEGATIVE-BIAS VALUE 125	VOLTS
DC POSITIVE-BIAS VALUE	VOLTS
POSITIVE-PEAK VALUE 0	VOLTS
MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:	
HEATER NEGATIVE WITH RESPECT TO CATHODE	
DURING WARM-UP PERIOD NOT TO EXCEED 15 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	ME GOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CALLIONE DELAE.	HODE DRIVEA	CATHODE
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DC ANODE VOLTAGE	14 000	VOLTS
DC GRID #4 VOLTAGE	~50 to +350	VOLTS
DC GRIÐ #2 VOLTAGE_	110	VOLTS
DC GRID #1 VOLTAGE ^B	−37 то −50	VOLTS

A THIS TUBE MAY BE OPERATED IN GRID DRIVE IF DESIRED, WITH SOME LOSS IN EFFICIENCY. AVERAGE RASTER CUTOFF, USING DRIVE, MAY BE CALCULATED: Eglco= .502 Eg2+5.8

CONTINUED ON FOLLOWING PAGE

BVISUAL EXTINCTION OF FOCUSED RASTER.

^{*}BRILLIANCE AND DEFINITION DECREASE WITH DECREASING ANODE VOLTAGE. IN GENERAL, ANODE VOLTAGE SHOULD NOT BE LESS THAN 12,000 VOLTS.

17BNP4 TENTATIVE DATA

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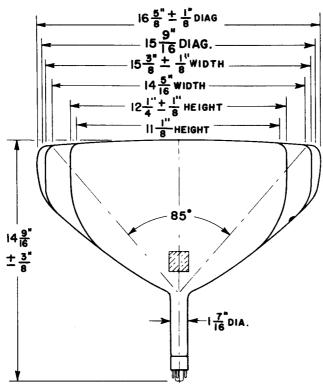
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MECHANICAL DATA

OVERALL LENGTH 14 9/16 ± 3/8 INCHES GREATEST DIMENSIONS OF BULB: DIAGONAL 16 5/8 ± 1/8 INCHES 15 3/8 ± 1/8 12 1/4 ± 1/8 WIDTH INCHES **HEIGHT** INCHES MIN. USEFUL SCREEN DIMENSIONS: DIAGONAL 15 9/16 INCHES 14 5/16 WIDTH INCHES HEIGHT 11 1/8 INCHES BULB CONTACT RECESSED SMALL CAVITY CAP J1-21 BASE SMALL SHELL DUODECAL 6 PIN B6-63 BASING 124

BULB CONTACT ALIGNMENT

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



PIN CONNECTIONS

BOTTOM VIEW



PIN 12 — HEATER ANODE CAP: GRID NO. 3 GRID NO. 5

(H) T(H) Z"