____ TUMB-SOL --

CATHODE RAY

THE 21CBP4 IS A DIRECT VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ELECTROSTATIC FOCUS
MAGNETIC DEFLECTION
GREY FILTER FACEPLATE
19 1/16" X 15 1/16" RASTER SIZE

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

ELECTRICAL DATA

FOCUSING METHOD DEFLECTING METHOD DEFLECTION ANGLE (APPROX.):	ELE	CTROSTATIC MAGNETIC
HORIZONTAL VERTICAL Diagonal	85 68 90	DEGREES DEGREES DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.): CATHODE TO ALL OTHER ELECTRODES GRID #1 TO ALL OTHER ELECTRODES MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	5 6 2500 2000	րր f րր f րր f րր f

OPTICAL DATA

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

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6±10%	AMP.
MAXIMUM DC ANODE VOLTAGE	18 ,000	VOLTS
MAXIMUM DC GRID #4 VOLTAGE -500	то +1000	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	550	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
DC NEGATIVE-BIAS VALUE	140	VOLTS
DC POSITIVE-BIAS VALUE	0	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 #4 CIRCUIT RESISTANCE	1.5	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE	14 000	VOLTS
DC GRID #4 VOLTAGE	-55 то 300	VOLTS
DC GRID #2 VOLTAGE	300	VOLTS
DC GRID #4 VOLTAGE A	-28 TO -72	VOLTS

CONTINUED ON FOLLOWING PAGE

AVISUAL EXTINCTION OF FOCUSED RASTER.

^{*}BRILLIANCE AND DEFINITION DECREASE WITH DECREASING ANODE VOLTAGE. IN GENERAL, ANODE VOLTAGE SHOULD NOT BE LESS THAN 14,000 VOLTS.

2ICBP4

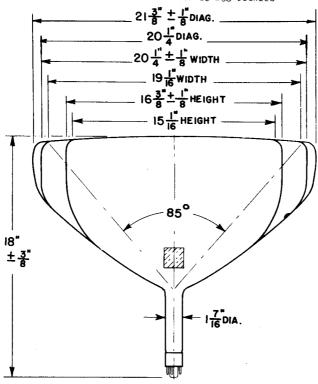
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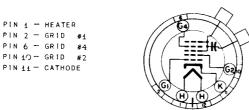
MECHANICAL DATA

OVERALL LENGTH 18 ± 3/8 INCHES GREATEST DIMENSIONS OF BULB: 21 3/8 ± 1/8 20 1/4 ± 1/8 INCHES WIDTH INCHES HEIGHT 16 3/8 ± 1/8 INCHES MIN. USEFUL SCREEN DIMENSIONS: 20 1/4 19 1/16 INCHES WIDTH INCHES 15 1/16 HEIGHT INCHES BULB CONTACT RECESSED SMALL CAVITY CAP J1-21 BASE SMALL SHELL DUODECAL 6 PIN B6-63 BASING 12L BULB CONTACT ALIGNMENT

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



PIN CONNECTIONS



PIN 12 - HEATER ANODE CAP: GRID NO. 3

GRID NO. 3

BOTTOM VIEW