TUMB-SOL -

CATHODE RAY

THE 218DP4 IS A DIRECT VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ALUMINIZED SCREEN
MAGNETIC DEFLECTION
GRAY FILTER FACEPLATE
EXTERNAL CONDUCTIVE COATING

ELECTROSTATIC FOCUS
UNIPOTENTIAL CATHODE
19 1/8" X 15" RASTER SIZE
RECTANGULAR GLASS CONSTRUCTION

DOES NOT REQUIRE SON TRAP

FOCUSING METHOD	ELI	ECTROSTATIC
DEFLECTING METHOD		MAGNETIC
DEFLECTION ANGLE (APPROX.):		
HORIZONTAL	67	DEGREES
VERTICAL	53	DEGREES
DIAGONAL	72	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):		
CATHODE TO ALL OTHER ELECTRODES	5	μμ f
GRID #1 TO ALL OTHER ELECTRODES	6	μμ f
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	750	μμι f
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	500	$\mu\mu$ f

OPTICAL DATA

PHOSPHOR NUMBER	SULFIDE TYPE	P-4
FLUORESCENT COLOR		WHITE
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
	TO +1000	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	500	VOLTS
MAXIMUM GRID #1 VOLTAGE:		
DC NEGATIVE—BIAS VALUE	125	VOLTS
DC POSITIVE-BIAS VALUE	ō	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	180	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	180	VOLTS
MAXIMUM GRID #1 C!RCUIT RESISTANCE	1.5	MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE ^B	16 000	VOLTS
DC GRID #4 VOLTAGE	+50 TO +550	VOLTS
DC GRID #2 VOLTAGE	300	VOLTS
DC GRID #1 VOLTAGE ^C	−28 to −72	VOLTS
DC GR!D #4 CURRENT	-15 to +25	LAMP.

ACATHODE SHOULD BE RETURNED TO ONE SIDE OR TO THE MIDTAP OF THE HEATER TRANSFORMER WINDING.

CONTINUED ON FOLLOWING PAGE

 $B_{\mbox{\footnotesize{BRILLIANCE}}}$ and definition decrease with decreasing anode voltage. In general, the anode voltage should not $\exists e$ less than 14,000 volts.

 $^{^{\}mathrm{C}}$ visual extinction of focused raster.

2IBDP4

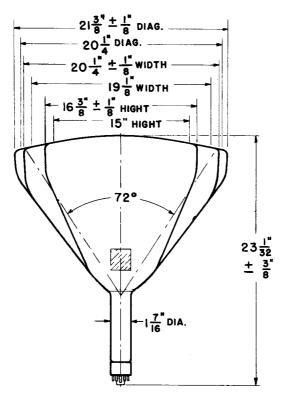
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MECHANICAL DATA

OVERALL LENGTH 23 1/32 ± 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 $J_1 - 21$ BASE SMALL SHELL DUODECAL 6 PIN B6-63 BASING 12L BULB CONTACT ALIGNMENT

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



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

PIN CONNECTIONS



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