THES-SOL

CATHODE RAY

THE 20BP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ROUND GLASS CONSTRUCTION UNIPOTENTIAL CATMODE

MAGNETIC FOCUS AND DEFLECTION EXTERNAL SINGLE FIELD ION TRAP

17" X 12 3/4" RASTER SIZE

ELECTRICAL DATA

	MAGNETIC
	MAGNETIC
54	DEGREES
7	μμf
8	μμf
	7

OPTICAL DATA

PHOSPHOR NUMBER	NO. 4
FLUORESCENT COLOR	WHITE
PHOSPHORESCENT COLOR	WHITE
PERSISTENCE	MEDIUM

MECHANICAL DATA

OVERALL LENGTH	28 ± 3/4	INCHES
GREATEST DIAMETER OF BULB	20 ± 3/8	INCHES
MINIMUM USEFUL SCREEN DIAMETER	18 3/4	INCHES
BULB CONTACT	MEDIUM METAL CAP	C1-5
BASE	SMALL SHELL DUODECAL 5 PIN	B5-57
BASING	*	120
BULB CONTACT ALIGNMENT		

C1-5 CONTACT ALIGNS WITH PIN POSITION #3 \pm 40 DEGREES

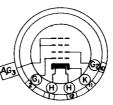
PIN CONNECTIONS

PIN 1 - HEATER

PIN 2 - GRID NO. 1

PIN 10 - GRID NO. 2

PIN 11 - CATHODE



PIN 12 - HEATER ANODE CAP: GRID NO. 3

BOTTOM VIEW

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

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RATINGS DESIGN, CENTER VALUES

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HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
MAXIMUM DC ANODE VOLTAGE	20 000	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	410	VOLTS
MAXIMUM GRID #1 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 WARMUP PERIOD NOT TO EXCEED 15 SECONDS	410	VOL 75
AFTER EQUIPMENT WARMUP PERIOD	140	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE:	140	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE	15 000	VOLTS
DC GRID #2 VOLTAGE	250	VOLTS
DC GRID #1 VOLTAGE ^A	−27 то − 63	VOLTS
DC FOCUSING COIL CURRENT (APPROX.) B	135	MA -

Avisual extinction of undeflected focused spot.

B. FOR STANDARD FOCUS COIL \$106, OR EQUIVALENT, WITH THE COMBINED GRID \$1 BIAS VOLTAGE AND VIDEO SIGNAL VOLTAGE ADJUSTED TO PRODUCE A HIGHLIGHT BRIGHTMESS OF 25 FOOT LAMBERTS ON A 12 3/4" X 17" PICTURE SIZE. DISTANCE FROM REFERENCE LINE TO CENTER OF AIR GAP ON FOCUS COIL SHALL BE 3.0 INCHES.

CIRCUIT VALUES

MAXIMUM GRID #4 CIRCUIT RESISTANCE 1.5 MEGOHMS