TUNG-SOL -

CATHODE RAY

THE 16FP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

UNIPOTENTIAL CATHODE
MAGNETIC FOCUS & DEFLECTION

10 1/4" X 13 1/2" RASTER SIZE

ROUND GLASS CONSTRUCTION
EXTERNAL SINGLE FIELD ION TRAP

ELECTRICAL DATA

FOCUSING METHOD DEFLECTING METHOD		MAGNETIC MAGNETIC
DEFLECTION ANGLE (APPROX.) DIRECT INTERELECTRODE CAPACITANCES (APPROX.):	62	DEGREES
CATHODE TO ALL OTHER ELECTRODES	5	μμf
GRID #1 TO ALL OTHER ELECTRODES	7	րի t

OPTICAL DATA

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

MECHANICAL DATA

OVERALL LENGTH	20 1/4 <u>+</u>	3/8	INCHES
GREATEST DIAMETER OF BULB	16 1/8 ±	1/4	INCHES
MINIMUM USEFUL SCREEN DIAMETER		15	INCHES
MINIMUM USEFUL SCREEN DIMENSIONS			
W1DTH	13	1/2	INCHES
HEIGHT	10	1/4	INCHES
BULB CONTACT	RECESSED SMALL BALL	CAP	J1-22
BASE	MALL SHELL DUODECAL 5	PIN	B 5 57
BASING			120

BULB CONTACT ALIGNMENT J_{1-22} CONTACT ALIGNS WITH PIN POSITION #3 \pm 10 DEGREES

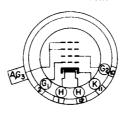
PIN CONNECTIONS

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

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RATINGS DESIGN CENTER VALUES

HEATER VOLTAGE HEATER CURRENT MAXIMUM DC ANODE, GRID #3 VOLTAGE MAXIMUM DC GRID #2 VOLTAGE MAXIMUM GRID #4 VOLTAGE:	6.3 0.6 16 000 410	VOLTS AMP. VOLTS VOLTS
DC NEGATIVE-BIAS VALUE DC POSITIVE-BIAS VALUE	125 0	VOLTS VOLTS
POSITIVE-PEAK VALUE MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE: HEATER NEGATIVE WITH RESPECT TO CATHODE	2	VOLTS
DURING WARM-UP PERIOD NOT TO EXCEED 15 SECONDS AFTER EQUIPMENT WARM-UP PERIOD HEATER POSITIVE WITH RESPECT TO CATHODE	410 140 140	VOLTS VOLTS VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

·DC	ANODE, GRID #3 VOLTAGE	13 000	VOLTS
DC	GRID #2 VOLTAGE	250	VOLTS
DC	GRID #1 VOLTAGE A	−27 то − 63	VOLTS
DC	FOCUSING COIL CURRENT (APPROX.) B	146	MA.
DC	ION TRAP CURRENT STANDARD COIL #111 (APPROX.)	105	MA.

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BFOR STANDARD FOCUS COIL #106, OR EQUIVALENT, WITH THE COMBINED GRID #1 BIAS VOLTAGE AND VIDEO SIGNAL VOLTAGE ADJUSTED TO PRODUCE A HIGHLIGHT BRIGHTNESS OF 35 FOOT LAMBERTS ON A 10 1/4" BY 13 1/2" 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

