--- TUNG-SOL -

CATHODE RAY

THE 27AP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ELECTROSTATIC FOCUS
GREY FILTER FACEPLATE
RECTANGULAR METAL CONSTRUCTION

ROSTATIC FOCUS MAGNETIC DEFLECTION
TER FACEPLATE UNIPOTENTIAL CATHODE
TO CONSTRUCTION EXTERNAL SINGLE FIELD FON TRAP
23 7/16" X 18 1/8" RASTER SIZE

ELECTRICAL DATA

FOCUSING METHOD	ELECTROSTATIC	
DEFLECTING METHOD	MAGNETIC	
DEFLECTION ANGLE (APPROX.):		
DIAGONAL	90	DEGREES
HORIZONTAL	85	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):		
CATHODE TO ALL OTHER ELECTRODES	5	μμf
GRID #1 TO ALL OTHER ELECTRODES	6	μμf

OPTICAL DATA

PHOSPHOR NUMBER		NO. 4
FLUORESCENT COLOR		WHITE
PHOSPHORESCENT COLOR		WH!TE
PERSISTENCE		MEDIUM
FACEPLATE LIGHT TRANSMISSION AT CENTER (APPROX.)	66	PERCENT
SPECULAR REFLECTION OF AMBIENT LIGHT	2.5	PERCENT

MECHANICAL DATA

OVERALL LENGTH	21 5/8 ± 9/16	INCHES
GREATEST DIMENSIONS OF BULB:		
DIAGONAL	26 7/8 ± 3/16	INCHES
WIDTH	25 1/4 ± 1/8	INCHES
HEIGHT	19 15/16 ± 1/8	INCHES
MINIMUM USEFUL SCREEN DIMENSIONS:		
WIDTH	23 7/16	INCHES
HEIGHT	18 1/8	INCHES
BULB CONTACT	METAL SHELL LIP	
BASE SMALL	SHELL DUODECAL 6 PIN	B6-63
BASING		12M

PIN CONNECTIONS

PIN 1 - HEATER
PIN 2 - GRID NO. 1
PIN 6 - GRID NO. 4
PIN 10 - GRID NO. 2
PIN 11 - CATHODE



PIN 12 - HEATER
METAL SHELL LIP:
GRID NO. 3
GRID NO. 5
COLLECTOR

BOTTOM VIEW

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RATINGS DESIGN CENTER VALUES

	6.3 0.6 18 000 To +1000	VOLTS AMP. VOLTS VOLTS
MAXIMUM DC GRID #2 VOLTAGE MAXIMUM GRID #4 VOLTAGE: DC NEGATIVE-BIAS VALUE DC POSITIVE-BIAS VALUE	500 125 0	VOLTS VOLTS
POSITIVE-PEAK VALUE MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:	2	VOLTS VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE DURING WARM-UP PERIOD NOT TO EXCEED 15 SECONDS AFTER EQUIPMENT WARM-UP PERIOD HEATER POSITIVE WITH RESPECT TO CATHODE	410 180 180	VOLTS VOLTS VOLTS

ATHE FOCUS ELECTRODE MAY BE MODULATED TO IMPROVE OVERALL FOCUS.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

	GRID #3, GRID #5, COLLECTOR VOLTAGE	15 000	VOLTS
DC	GRID #4 VOLTAGE ^B	- 60 то +300	VOLTS
	GRID #2 VOLTAGE	300	VOLTS
ÐC	GRID #1 VOLTAGE ^C	−33 to −77	VOLTS
DC	ION TRAP CURRENT STANDARD COIL #111 (APPROX.)	85	MA.
DC	GRID #4 CURRENT	-15 To +25	LAMP.

^BMEASURED AT 100 UAMP. ANODE CURRENT AND EQUAL VERTICAL AND HORIZONTAL RESOLUTION.

CIRCUIT VALUES

MAXIMUM GRID #1 CIRCUIT RESISTANCE	1.5	MEGOHMS
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 $^{^{\}mathrm{C}}$ visual extinction of undeflected focused spot.