---- TUNG·SOL ----

CATHODE RAY

THE 16ABP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ELECTROSTATIC FOCUS
UNIPOTENTIAL CATHODE
EXTERNAL CONDUCTIVE COATING
RECTANGULAR GLASS CONSTRUCTION

MAGNETIC DEFLECTION
GREY FILTER FACEPLATE
13 1/2" X 10 1/2" RASTER SIZE
EXTERNAL SINGLE FIELD ION TRAP

ELECTRICAL DATA

FOCUSING METHOD		ELECTROSTATIC
DEFLECTING METHOD		MAGNETIC
DEFLECTION ANGLE (APPROX.) DIAGONAL	70	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):		
CATHODE TO ALL OTHER ELECTRODES	5.0	μμ f
GRID #1 TO ALL OTHER ELECTRODES	6.5	μμf
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	1 500	μμf
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	750	μμf

OPTICAL DATA

PHOSPHOR NUMBER		NO. 4
FLUORESCENT COLOR		WHITE
PHOSPHORESCENT COLOR		WHITE
PERSISTENCE		MEDIUM
FACEPLATE LIGHT TRANSMISSION AT CENTER (APPROX.)	66	PERCENT

MECHANICAL DATA

OVERALL LENGTH $18 3/4 \pm 3/8$	INCHES
GREATEST DIMENSIONS OF BULB:	
$16 1/8 \pm 1/8$	INCHES
\dot{w} IDTH 14 $3/4 \pm 1/8$	INÇHES
HEIGHT 11 $1/8 \pm 1/8$	INCHES
MINIMUM USEFUL SCREEN DIMENSIONS:	
DIAGONAL 14 7/8	INCHES
WIDTH 13 1/2	INCHES
HEIGHT 10 1/2	INCHES
BULB CONTACT RECESSED SMALL CAVITY CAP	J1-21
BASE SMALL SHELL DUODECAL 5 PIN	B5-57
BASING	12N

BULB CONTACT ALIGNMENT J1-21 CONTACT ALIGNS WITH PIN POSITION #6 \pm 40 DEGREES

PIN CONNECTIONS

PIN 1 - HEATER

PIN 2 - GRID NO. 1

PIN 40 - GRID NO. 2



PIN 11 - CATHODE PIN 12 - HEATER ANODE CAP: GRID NO. 3 GRID NO. 5

BOTTOM VIEW

CONTINUED ON FOLLOWING PAGE

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RATINGS DESIGN CENTER VALUES

HEATER VOLTAGE HEATER CURRENT MAXIMUM DC ANODE, GRID #3, GRID #5 VOLTAGE MAXIMUM DC GRID #2 VOLTAGE MAXIMUM GRID #4 VOLTAGE:	6.3 0.6 16 000 500	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:	2	VOLTS
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

ACATHODE SHOULD BE RETURNED TO ONE SIDE OR TO THE MID-TAP OF THE HEATER TRANSFORMER WINDING.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE, GRID #3, GRID #5 VOLTAGE	14 000	VOLTS
DC GRID #2 VOLTAGE_	300	VOLTS
DC GRID #1 VOLTAGE ^B	-33 to -77	VOLTS
DC ION TRAP CURRENT STANDARD COIL #111 (APPROX.)	75 ± 50%	MA.

 $[\]mathsf{B}_{\mathsf{VISUAL}}$ extinction of undeflected focused spot.

CIRCUIT VALUES

MAXIMUM GRID #4	CIRCUIT RESISTANCE	1.5 M	IE GOHMS
MAXIMOM CITIO #1	CINCOII RESISTANCE	1.0	IE GOUTMO