TUNG-SOL -

CATHODE RAY

THE 17BMP4 IS A DIRECT VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ELECTROSTATIC FOCUS
MAGNETIC DEFLECTION
UNIPOTENTIAL CATHODE
EXTERNAL CONDUCTIVE COATING

ALUMINIZED SCREEN GRAY FILTER FACEPLATE 19 1/8" X 15" RASTER SIZE EXTERNAL SINGLE FIELD ION TRAP 14 5/16" X 11 1/8" RASTER SIZE

ELECTRICAL DATA

FOCUSING METHOD	ELECTROSTATIC		
DEFLECTING METHOD		MAGNETIC	
DEFLECTION ANGLE (APPROX.): HORIZONTAL VERTICAL DIAGONAL	80 65 90	DEGREES DEGREES DEGREES	
DIRECT INTERELECTRODE CAPACITANCES (APPROX.): CATHODE TO ALL OTHER ELECTRODES GRID \$4 TO ALL OTHER ELECTRODES MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	5 6 1500 750	μμ f μμ f μμ f μμ f μμ f	
OPTICAL DATA			
CHOSPHOR NUMBER FLUORESCENT COLOR PHOSPHORESCENT COLOR PERSISTENCE	SULFIDE TYPE	P-4 WHITE WHITE SHORT	
FACEPLATE TRANSMISSION AT CENTER (APPROX.):	71	PERCENT	
RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM			
HEATER VOLTAGE	6.3	VOLTS	
HEATER CURRENT	0.5	AMP.	
MAXIMUM DC ANODE VOLTAGE*	18 000	VOLTS	
MAXIMUM DC GRID #4 VOLTAGE MAXIMUM DC GRID #2 VOLTAGE	-500 то +1000	VOLTS	
MAXIMUM GRID #1 VOLTAGE: DC NEGATIVE—BIAS VALUE	200 125	VOLTS	
DC POSITIVE-BIAS VALUE POSITIVE-PEAK VALUE	0	VOLTS VOLTS VOLTS	
MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE: 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	VOLTS VOLTS	
MAXIMUM GRID #1 CIRCUIT RESISTANCE	180 1.5	VOLTS MEGOHMS	

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS A

DC ANODE VOLTAGE	14 000	VOLTS
DC GRID #4 VOLTAGE	−55 TO +300	VOLTS
DC GRID #2 VOLTAGE	110	VOLTS
DC GRID #1 VOLTAGE	−32 то −50	VOLTS
DC ION TRAP MAGNET RATED STRENGTH	\ 37	GAUSSES

^{*}BRILLIANCE AND DEFINITION DECREASE WITH DECREASING ANODE VOLTAGE. IN GENERAL, ANODE VOLTAGE SHOULD NOT BE LESS THAN 12,000 VOLTS.

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A THIS TUBE MAY BE OPERATED IN GRID ORIVE IF DESIRED, WITH SOME LOSS IN EFFICIENCY. AVERAGE RASTER CUTOFF, USING GRID DRIVE, MAY BE CALCULATED: E91c0 = .502 E92+5.8

17BMP4

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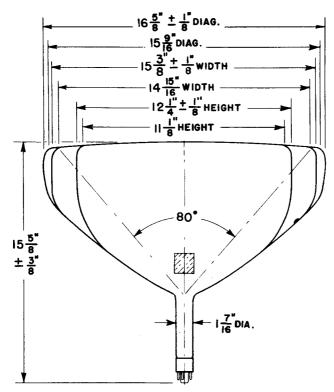
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MECHANICAL DATA

OVERALL LENGTH 15 5/8 ± 3/8 INCHES GREATEST DIMENSIONS OF BULB: DIAGONAL 16 5/8 ± 1/8 INCHES WIDTH 15 3/8 ± 1/8 INCHES HEIGHT 12 1/4 ± 1/8 INCHES MIN. USEFUL SCREEN DIMENSIONS: DIAGONAL INCHES 15 9/16 WIDTH INCHES 14 15/16 HEIGHT INCHES RECESSED SMALL CAVITY CAP BULB CONTACT J1-21 BASE SMALL SHELL DUODECAL 6 PIN B6-63 BASING 12L

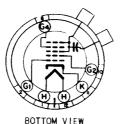
BULB CONTACT ALIGNMENT

J1-21 CONTACT ALIGNS WITH PIN POSITION #6 ± 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