TUMB-SOL

CATHODE RAY

THE 16JP4 AND 16JP4A ARE DIRECT -VIEW PICTURE TUBES DESIGNED FOR USE IN TELEVISION APPLICATIONS. THEY ARE IDENTICAL EXCEPT FOR THE GREY FILTER FACEPLATE USED ON THE 16JP4A. THEIR COMMON FEATURES INCLUDE:

UNIPOTENTIAL CATHODE ROUND GLASS CONSTRUCTION
MAGNETIC FOCUS & DEFLECTION EXTERNAL CONDUCTIVE COATING
EXTERNAL DOUBLE FIELD ION TRAP

MECHANICAL DATA

FOCUSING METHOD		MAGNETIC
DEFLECTING METHOD		MAGNETIC
DEFLECTION ANGLE (APPROX.)	60	DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):		
CATHODE TO ALL OTHER ELECTRODES	5	μμ f
GRID #1 TO ALL OTHER ELECTRODES	6.5	μμf
MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	2 000	μμf
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE	750	μμ f

OPTICAL DATA

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

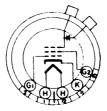
MECHANICAL DATA

OVERALL LENGTH	20 3/4 ± 3/8	INCHES
GREATEST DIAMETER OF BULB	16 1/8 ± 1/4	INCHES
MINIMUM USEFUL SCREEN DIAMETER	15	INCHES
BULB CONTACT	RECESSED SMALL CAVITY CAP	J1-21
BASE	SMALL SHELL DUODECAL 5 PIN	85-57
BASING		12N
BULB CONTACT ALIGNMENT -		

J1--21 CONTACT ALIGNS WITH PIN POSITION #3 ± 10 DEGREES

PIN CONNECTIONS

P1N 1 - HEATER
P1N 2 - GR1D NO. 1
P1N 1O - GR1D NO. 2



PIN 11 - CATHODE PIN 12 - HEATER ANODE CAP

BOTTOM VIEW

CONTINUED ON FOLLOWING PAGE

– TUNS·SOL –

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RATINGS DESIGN CENTER VALUES

HEATER VOLTAGE HEATER CURRENT MAXIMUM DC ANODE VOLTAGE MAXIMUM DC GRID #2 VOLTAGE MAXIMUM GRID #1 VOLTAGE:	6.3 0.6 14 000 410	VOLTS AMP. VOLTS VOLT6
DC NEGATIVE-BIAS VALUE DC POSITIVE-BIAS VALUE POSITIVE-PEAK VALUE MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:	125 0 2	VOLTS 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	410 125 125	VOLTS VOLTS VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE	11 000	VOL TS
DC GRID #2 VOLTAGE	250	VOLTS
DC GRID #4 VOLTAGE ^A	−33 to −77	VOL TS
DC FOCUSING COIL CURRENT (APPROX.)	115	MA.
DC ION TRAP CURRENT STANDARD COIL #408 (APPROX.)	120	MA.

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CIRCUIT VALUES

MAXIMUM GRID #1 CIRCUIT RESISTANCE 1.5 MEGOHMS