TUNG-SOL
CATHODE RAY

THE 17BJP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ALUMINIZED SCREEN  ELECTROSTATIC FOCUS
MAGNETIC DEFLECTION  UNIPOTENTIAL CATHODE
GRAY FILTER FACEPLATE  EXTERNAL CONDUCTIVE COATING
REQUIRES NO ION TRAP MAGNET  RECTANGULAR GLASS CONSTRUCTION
1" x 1 1/4" x 10 3/4" RASTER SIZE

ELECTRICAL DATA

FOCUSING METHOD  ELECTROSTATIC
DELECTING METHOD  MAGNETIC

DEFLECTION ANGLE (APPROX.):
  HORIZONTAL  85 DEGREES
  VERTICAL  68 DEGREES
  DIAGONAL  90 DEGREES

DIRECT INTERELECTRODE CAPACITANCES (APPROX.):
  CATHODE TO ALL OTHER ELECTRODES  5 µF
  GRID #1 TO ALL OTHER ELECTRODES  6 µF
  MAXIMUM EXTERNAL CONDUCTIVE COATING TO ANODE  1500 µF
  MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE  1200 µF

OPTICAL DATA

PHOSPHOR NUMBER  SULFIDE TYPE  P-4
FLUORESCENT COLOR  WHITE
PHOSPHORESCENT COLOR  WHITE
PERSISTENCE  SHORT
FACEPLATE TRANSMISSION AT CENTER (APPROX.):  74 PERCENT

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE  6.3 VOLTS
HEATER CURRENT  0.6 AMP.
MAXIMUM DC ANODE VOLTAGE  16000 VOLTS
MAXIMUM DC GRID #4 VOLTAGE  -500 TO +1000 VOLTS
MAXIMUM DC GRID #2 VOLTAGE  500 VOLTS
MAXIMUM GRID #1 VOLTAGE:
  DC NEGATIVE-BIAS VALUE  140 VOLTS
  DC POSITIVE-BIAS VALUE  0 VOLTS
  POSITIVE-PEAK VALUE  0 VOLTS
MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:
  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
MAXIMUM GRID #1 CIRCUIT RESISTANCE  1.5 MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE  14000 VOLTS
DC GRID #4 VOLTAGE  -55 TO 300 VOLTS
DC GRID #2 VOLTAGE  300 VOLTS
DC GRID #1 VOLTAGEB  -28 TO -72 VOLTS

A BRILLIANCE AND DEFINITION DECREASE WITH DECREASING ANODE VOLTAGE. IN GENERAL, THE ANODE VOLTAGE SHOULD NOT BE LESS THAN 12,000 VOLTS.

B VISUAL EXTINCTION OF FOCUSED RASTER.

CONTINUED ON FOLLOWING PAGE
OVERALL LENGTH: 14 5/8 ± 3/16 INCHES
GREATEST DIMENSIONS OF BULB:
- DIAGONAL: 16 5/8 ± 1/8 INCHES
- WIDTH: 15 3/8 ± 1/8 INCHES
- HEIGHT: 12 9/32 ± 1/8 INCHES
MIN. USEFUL SCREEN DIMENSIONS:
- DIAGONAL: 15 9/16 INCHES
- WIDTH: 14 5/16 INCHES
- HEIGHT: 11 1/8 INCHES
BULB CONTACT: Recessed small cavity cap, J4-21
BASE: Small shell duodecal 6 pin, 86-63
BASING: J4-21 contact aligns with pin position #6 ± 30 degrees

PIN CONNECTIONS:
- PIN 1 - HEATER
- PIN 2 - GRID #1
- PIN 6 - GRID #4
- PIN 10 - GRID #3
- PIN 11 - CATHODE

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