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

MECHANICAL DATA

FOCUSING METHOD
DEFLECTING METHOD
DEFLECTION ANGLE (APPROX.) 60 DEGREES
DIRECT INTERELECTRODE CAPACITANCES (APPROX.):
CATHODE TO ALL OTHER ELECTRODES 5 µµF
GRID #1 TO ALL OTHER ELECTRODES 6.5 µµF
MAXIMUMEXTERNAL CONDUCTIVE COATING TO ANODE 2000 µµF
MINIMUMEXTERNAL CONDUCTIVE COATING TO ANODE 750 µµF

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 DUODECIAL 5 PIN B5-57
BASING 12N
BULB CONTACT ALIGNMENT:
J1-21 CONTACT ALIGNS WITH PIN POSITION #3 ± 10 DEGREES

PIN CONNECTIONS

PIN 1 - HEATER
PIN 2 - GRID NO. 1
PIN 10 - GRID NO. 2
PIN 11 - CATHODE
PIN 12 - HEATER ANODE CAP

CONTINUED ON FOLLOWING PAGE
RATINGS
DESIGN CENTER VALUES

HEATER VOLTAGE 6.3 VOLTS
HEATER CURRENT 0.6 AMP.
MAXIMUM DC ANODE VOLTAGE 14 000 VOLTS
MAXIMUM DC GRID #2 VOLTAGE 410 VOLTS
MAXIMUM GRID #4 VOLTAGE:
   DC NEGATIVE-BIAS VALUE 125 VOLTS
   DC POSITIVE-BIAS VALUE 0 VOLTS
   POSITIVE-PEAK VALUE 2 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 125 VOLTS
   HEATER POSITIVE WITH RESPECT TO CATHODE 125 VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE 11 000 VOLTS
DC GRID #2 VOLTAGE 250 VOLTS
DC GRID #4 VOLTAGE
   A VISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.
   A -33 TO -77 VOLTS
DC FOCUSING COIL CURRENT (APPROX.) 115 MA.
DC ION TRAP CURRENT STANDARD COIL #1OB (APPROX.) 120 MA.

CIRCUIT VALUES

MAXIMUM GRID #1 CIRCUIT RESISTANCE 1.5 MEGOHMS