TUNG-SOL
CATHODE RAY

THE 17CGP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

ALUMINIZED SCREEN MAGNETIC DEFLECTION
ELECTROSTATIC FOCUS UNIPOTENTIAL CATHODE
GRAY FILTER FACEPLATE EXTERNAL CONDUCTIVE COATING
RECTANGULAR GLASS CONSTRUCTION 14 5/16" X 18 1/8" RASTER SIZE
DOES NOT REQUIRE ION TRAP

ELECTRICAL DATA

FOCUSING METHOD ELECTROSTATIC
DEFLECTING METHOD MAGNETIC
DEFLECTION ANGLE (APPROX.):
HORIZONTAL 65 DEGREES
DIAGONAL 70 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 750 μf
MINIMUM EXTERNAL CONDUCTIVE COATING TO ANODE 500 μf

OPTICAL DATA

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

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM
HEATER VOLTAGE 6.3 VOLS
HEATER CURRENT 0.6 ±10% AMP.
MAXIMUM DC ANODE VOLTAGE 14 000 VOLS
MAXIMUM DC GRID #4 VOLTAGE -500 TO +1000 VOLS
MAXIMUM DC GRID #2 VOLTAGE 500 VOLS
MAXIMUM GRID #4 VOLTAGE:
DC NEGATIVE-BIAS VALUE 125 VOLS
DC POSITIVE-BIAS VALUE 0 VOLS
POSITIVE-PEAK VALUE 2 VOLS
MAXIMUM DC PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE DURING WARM-UP PERIOD NOT TO EXCEED 15 SECONDS 410 VOLS
AFTER EQUIPMENT WARM-UP PERIOD 180 VOLS
HEATER POSITIVE WITH RESPECT TO CATHODE 180 VOLS
MAXIMUM GRID #1 CIRCUIT RESISTANCE 1.5 MEGOHMS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE 11 000 VOLS
DC GRID #4 VOLTAGE -56 TO +310 VOLS
DC GRID #2 VOLTAGE 300 VOLS
DC GRID #1 VOLTAGE 28 TO -72 VOLS

A VISUAL EXTINCTION OF FOCUSED RASTER.

CONTINUED ON FOLLOWING PAGE
OVERALL LENGTH 17 3/16 ± 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 15 9/16 INCHES
WIDTH 14 5/16 INCHES
HEIGHT 11 1/8 INCHES

BULB CONTACT BASE
RECESSED SMALL CAVITY CAP
SMALL SHELL DUODECAL 6 PIN
U-1-21
B-6-62
12L

BULB CONTACT ALIGNMENT
J-1-24 CONTACT ALIGNS WITH PIN POSITION #6 ± 30 DEGREES

PIN CONNECTIONS
PIN 1 - HEATER
PIN 2 - GRID #4
PIN 6 - GRID #4
PIN 10 - GRID #2
PIN 14 - CATHODE

PIN 42 - HEATER
ANODE CAP:
GRID NO. 3
GRID NO. 5

BOTTOM VIEW