# - TUNG·SOL -

## CATHODE RAY

THE 16CP4 IS A DIRECT-VIEW PICTURE TUBE DESIGNED FOR USE IN TELEVISION APPLICATIONS. ITS FEATURES INCLUDE:

UNIPOTENTIAL CATHODE ROUND GLASS CONSTRUCTION
MAGNETIC FOCUS & DEFLECTION DOUBLE FIELD ION TRAP MAGNET
10 1/4" X 14 1/2" RASTER SIZE

## ELECTRICAL DATA

FOCUSING METHOD MAGNETIC
DEFLECTING METHOD MAGNETIC
DEFLECTION ANGLE (APPROX.) 52 DEGREES

#### OPTICAL DATA

PHOSPHOR NUMBER NO. 4
FLUORESCENT COLOR WHITE
PHOSPHORESCENT COLOR WHITE
PERSISTENCE MEDIUM

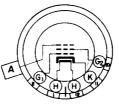
## MECHANICAL DATA

21 1/2 ± 3/8 OVERALL LENGTH INCHES GREATEST DIAMETER OF BULB 15 7/8 ±1/8 INCHES MINIMUM USEFUL SCREEN DIAMETER INCHES 15 RECESSED SMALL CAVITY CAP BULB CONTACT J1-21 BASE SMALL SHELL DUODECAL 5 PIN B5--57 BASING BULB CONTACT ALIGNMENT

J1-21 CONTACT ALIGNS WITH PIN POSITION #3  $\pm$  10 DEGREES

## PIN CONNECTIONS





PIN 11 - CATHODE PIN 12 - HEATER ANODE CAP

BOTTOM VIEW

CONTINUED ON FOLLOWING PAGE

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#### RATINGS DESIGN CENTER VALUES

HEATER VOLTAGE HEATER CURRENT MAXIMUM DC ANODE VOLTAGE MAXIMUM DC GRID #2 VOLTAGE MAXIMUM GRID #4 VOLTAGE:	6.3 0.6 15 000 410	VOLTS AMP. VOLTS VOLTS
DC NEGATIVE-BIAS VALUE DC POSITIVE-BIAS VALUE POSITIVE-PEAK VALUE	125 0 2	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	410 125	VOLTS VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	125	VOLTS

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

DC ANODE VOLTAGE	12 000	VOLTS
DC GRID #2 VOLTAGE	250	VOLTS
DC GRID #1 VOLTAGEA	-27 то <del>-</del> 63	VOLTS
DC FOCUSING COIL CURRENT <sup>B</sup> (APPROX.)	110	MA.
DC ION TRAP CURRENT STANDARD COIL #108 (APPROX.)	120	MA.

AVISUAL EXTINCTION OF UNDEFLECTED FOCUSED SPOT.

## CIRCUIT VALUES

MAXIMUM GRID #1 CIRCUIT RESISTANCE 1.5 MEGOHMS

BFOR STANDARD FOCUS COIL \$109, OR EQUIVALENT, WITH THE COMBINED GRID \$1 BIAS VOLTAGE AND VIDEO SIGNAL VOLTAGE ADJUSTED TO PRODUCE A HIGHLIGHT BRIGHTNESS OF 20 FOOT LAMBERTS ON A 10 1/4" BY 14 1/2" PICTURE SIZE. DISTANCE FROM REFERENCE LINE TO CENTER OF AIR GAP ON FOCUS COIL SHALL BE 3.25 INCHES.