THE 6CK4 IS A LOW MU TRIODE INTENDED FOR USE PRIMARILY AS A VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. CONTAINED IN A T-9 ENVELOPE, THE TUBE HAS A HIGH ZERO-BIAS PLATE CURRENT.

DIRECT INTERELECTRODE CAPACITANCES

- GRID TO PLATE (G TO P): 6.5 μμf
- INPUT: G TO (H+K): 8.0 μμf
- OUTPUT: P TO (H+K): 1.8 μμf

RATINGS

- HEATER VOLTAGE: 6.3 VOLTS
- MAXIMUM DC PLATE VOLTAGE: 550 VOLTS
- MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABS. MAX.): 2000 VOLTS
- MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE: 250 VOLTS
- MAXIMUM PLATE DISSIPATION: 12.0 WATTS
- MAXIMUM AVERAGE CATHODE CURRENT: 100 MA.
- MAXIMUM PEAK CATHODE CURRENT: 350 MA.
- MAXIMUM GRID CIRCUIT RESISTANCE: 2.2 MEGOHMS
- SELF BIAS: 200 VOLTS
- HEATER NEGATIVE WITH RESPECT TO CATHODE:
  - TOTAL DC AND PEAK: 100 VOLTS
  - DC: 200 VOLTS
- HEATER POSITIVE WITH RESPECT TO CATHODE:
  - TOTAL DC AND PEAK: 200 VOLTS

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE 6.3 VOLTS
HEATER CURRENT 1.25 AMP.
PLATE VOLTAGE 250 VOLTS
GRID #1 VOLTAGE -28 VOLTS
PLATE CURRENT 40 MA.
TRANSCONDUCTANCE 5.00 MMHOS
AMPLIFICATION FACTOR 6.6
PLATE RESISTANCE (APPROX.) 200 OHMS
GRID VOLTAGE FOR I_b = 0.5 MA. -50 VOLTS
PLATE CURRENT AT E_c = -3B Vdc. 10 MA.
ZERO BIAS PLATE CURRENT: E_b = 100 V; E_c = 0 (INSTANTANEOUS VALUES) 125 MA.

A. DESIGN-MAXIMUM RATINGS ARE THE LIMITING VALUES EXPRESSED WITH RESPECT TO BOGIE TUBES AT WHICH SATISFACTORY TUBE LIFE CAN BE EXPECTED TO OCCUR. TO OBTAIN SATISFACTORY CIRCUIT PERFORMANCE, THEREFORE, THE EQUIPMENT DESIGNER MUST ESTABLISH THE CIRCUIT DESIGN SO THAT NO DESIGN-MAXIMUM VALUE IS EXCEEDED WITH A BOGIE TUBE UNDER THE MOST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, AND ENVIRONMENTAL CONDITIONS.

B. FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

C. IN STAGES OPERATING WITH GRID LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISITOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

→ INDICATES A CHANGE.