320 RCA RECEIVING TUBE MANUAL

Heater Voltage (ac/dc) ........................................... 4.2 volts
Heater Current .................................................................. 0.8 amperes
Heater-Cathode Voltage; Peak value ........................................... ±200 max volts
Average value ................................................................ 100 max volts
Direct Interelectrode Capacitances: **
Unit No. 1: Grid No.1 to Cathode, Grid No.2, Grid No.3, Grid No.4, Upper Shield, and Upper Shield of Unit No.2, and Lower Shield Plate to Cathode, Grid No.2, Grid No.3, Grid No.4, Lower Shield of Unit No.2, and Lower Shield 11 pF
Unit No. 2: Grid No.1 to Cathode, Grid No.2, Grid No.3, Grid No.4 of Unit No.1, and Internal Shield Plate to Cathode, Grid No.2, Grid No.3, Grid No.4 of Unit No.1, and Internal Shield 11 pF
Grid No.1 to Grid No.2 Grid No.1, Plate to Grid No.2 3.2 pF
Grid No.1 to Unit No.1 Plate of Unit No.1 to Plate of Unit No.1 0.003 max pF
Plate of Unit No.1 to Plate of Unit No.2 0.003 max pF
** With external shield connected to cathode.

MAXIMUM RATINGS (Design-Maximum Values)
Class A, Amplifier (Each Unit)
Plate Voltage .......................................................... 830 volts
Grid-No.2 (Screen-Grid) Supply Voltage ........................................... 330 volts
Grid-No.2 Voltage .......................................................... See curve page 98
Grid-No.1 (Control-Grid) Voltage, Positive bias value ..................... 0 volts
Plate Dissipation .................................................................. 5.1 watts
Grid-No.2 Input: For grid No.2 voltages up to 165 volts 0.05 watt
For grid No.2 voltages between 165 and 300 volts See curve page 98
CHARACTERISTICS
Plate Supply Voltage .......................................................... 125 volts
Grid-No.2 (Screen Grid) .......................................................... Connected to cathode at socket
Grid-No.2 Voltage .......................................................... 125 volts
Cathode Bias Resistor .......................................................... 250,000 ohms
Plate Resistance (Approx.) ..................................................... 0.2 megohms
Transconductance .................................................................. 1500 micro-amps
Plate Current ...................................................................... 11 mA
Grid-No.2 Current ................................................................ 9 mA
Grid-No.1 Voltage (Approx.) for plate current of 20 µA ............ -3 volts
MAXIMUM CIRCUIT VALUE
Grid-No.1-Circuit Resistance, for cathode-bias operation ........... 0.25 megohms

6JB6
Refer to chart at end of section.

6JB6A

BEAM POWER TUBE
12JB6A, 17JB6A
Novar types used as high-efficiency horizontal-deflection amplifiers in television receivers. Outlines section, 32A; requires Novar 9-contact socket. Types 12JB6A and 17JB6A are identical with type 6JB6A except for heater ratings.

Heater Voltage (ac/dc) ........................................... 6.3 volts
Heater Current .................................................................. 12.5 amperes
Heater Temperature (Average) ........................................... 1111 seconds
Heater-Cathode Voltage; Peak value ........................................... ±200 max volts
Average value .................................................................. 100 max volts
Direct Interelectrode Capacitances (Approx.): Grid No.1 to Plate 0.2 pF
Grid No.1 to Cathode, Grid No.2, and Grid No.3 15 pF
Plate to Cathode, Grid No.2, and Grid No.3 6 pF

6J6C6

SHARP-CUTOFF PENTODE
3J6CA, 4J6C, 4J6CA
Miniature type with frame grid used in 1-tube amplifier stages of color and black-and-white television receivers utilizing intermediate frequencies in the order of 40 MHz. Outlines section, 6B; requires miniature 9-contact socket. Type 4J6C is identical with type 6J6C except for heater ratings. Types 3J6CA and 4J6CA are identical with type 6J6CA except for heater ratings.