6CB6
SHARP-CUTOFF PENTODE
MINIATURE TYPE

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage............ 6.3...... ac or dc volts
Current............ 0.3...... amp
Direct Interelectrode Capacitances:

Without External Shield
Grid No. 1 to plate.... 0.020 max.
Grid No. 1 to cathode,
grid No. 2 & internal
shield, grid No. 2,
and heater........... 6.5 6.5 μf

With External Shield
Plate to cathode,
grid No. 3 & internal
shield, grid No. 2,
and heater........... 1.9 3.0 μf

Mechanical:
Mounting Position.................... Any
Maximum Overall Length............. 2-1/8"
Maximum Seated Length............. 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" ± 3/32"
Maximum Diameter.................... 3-4"
Bulb.................. T-5-1/2
Base.................. Small-Button Miniature 7-Pin (JETEC No. E7-1)
Basing Designation for BOTTOM VIEW.... 7CM

Pin 1 - Grid No. 1
Pin 2 - Cathode
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No. 2
Pin 7 - Grid No. 3,
Internal Shield

AMPLIFIER - Class A1

Maximum Ratings, Design-Center Values:
PLATE VOLTAGE............. 300 max. volts
GRID-No. 2 (SCREEN) SUPPLY VOLTAGE........ 300 max. volts
GRID-No. 2 VOLTAGE........... See Grid-No. 2 Input Rating Chart at front of Receiving Tube Section
PLATE DISSIPATION............ 2 max. watts
GRID-No. 2 INPUT:
For grid-No. 2 voltages up to 150 volts. 0.5 max. watt
For grid-No. 2 voltages between 150
and 300 volts........... See Grid-No. 2 Input Rating Chart at front of Receiving Tube Section

© with external shield JETEC No. 316 connected to cathode.

MAR. 1, 1955
TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
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**PEAK HEATER-CATHODE VOLTAGE:**
- Heater negative with respect to cathode: 200 max. volts
- Heater positive with respect to cathode: 200 max. volts

**Typical Operation and Characteristics:**
- Plate Voltage: 200 volts
- Grid No.3 (Suppressor) Connected to cathode at socket
- Grid-No.2 Voltage: 150 volts
- Cathode-Bias Resistor: 180 ohms
- Plate Resistance (Approx.): 0.6 megohm
- Transconductance: 6200 μhos
- Grid-No.1 Voltage (Approx.) for plate current of 10 μamp.: -8 volts
- Plate Current: 9.5 ma
- Grid-No.2 Current: 2.8 ma

*The dc component must not exceed 100 volts.*
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AVERAGE PLATE CHARACTERISTICS

$E_p = 6.3$ VOLTS
GRID-$N^2$ VOLTS = 150

PLATE MILLIAMPERES

PLATE VOLTS

SEPT. 30, 1949
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