



6BD6

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REMOTE-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:

	<i>Without Ex- ternal Shield</i>	<i>With External Shield No. 316</i>	
Grid No.1 to Plate . . .	0.005 max.	0.004 max.	μmf
Input.	4.3	4.3	μmf
Output	5.0	5.0	μmf

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" $\pm$ 3/32"

Maximum Diameter 3/4"

Bulb T-5-1/2

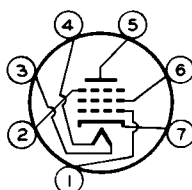
Base Small-Button Miniature 7-Pin

Basing Designation for BOTTOM VIEW 7BK1

Pin 1-Grid No.1

Pin 2-Grid No.3,
Internal Shield

Pin 3-Heater



Pin 4-Heater

Pin 5-Plate

Pin 6-Grid No.2

Pin 7-Cathode

AMPLIFIER-Class A₁**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. 300 max. volts

GRID-No.2 (SCREEN) VOLTAGE 125 max. volts

PLATE DISSIPATION. 3 max. watts

GRID-No.2 INPUT. 0.65 max. watt

TOTAL CATHODE CURRENT. 14 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 90 max. volts

Heater positive with respect to cathode. 90 max. volts

Typical Operation and Characteristics:

Plate Voltage. 100 125 250 volts

Grid No.3 (Suppressor) Connected to cathode at socket

Grid-No.2 Voltage. 100 125 100 volts

Grid-No.1 (Control Grid)

Voltage. -1 -3 -3 volts

Plate Resistance 0.15 0.18 0.8 megohm

Transconductance 2550 2350 2000 μmhos

FEB. 1, 1950

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Grid-No.1 Bias (Approx.) for transconductance of 10 μ mhos . .	-35	-45	-35	volts
Plate Current.	13	13	9	ma
Grid-No.2 Current.	5	5	3	ma

FEB 1, 1950

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