



6AQ7-GT

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TWIN DIODE—HIGH-MU TRIODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ac or dc volts

Current. 0.3 amp

Direct Interelectrode Capacitances:

Triode Unit:^o

Grid to Plate 3.0 $\mu\mu\text{f}$

Grid to Cathode. 2.8 $\mu\mu\text{f}$

Plate to Cathode 3.2 $\mu\mu\text{f}$

Grid to Diode Cathode^o . 0.25 max. $\mu\mu\text{f}$

Diode-No.1 Plate to

Diode Cathode* . 2.2 $\mu\mu\text{f}$

Diode-No.2 Plate to

Diode Cathode* . 2.4 $\mu\mu\text{f}$

Diode-No.1 Plate to

Diode-No.2 Plate* 0.5 $\mu\mu\text{f}$

^o With external shield No.308 connected to Pin No.6.

* With external shield No.308 connected to Pin No.2.

Mechanical:

Mounting Position. Any

Maximum Overall Length 3-5/16"

Maximum Seated Length. 2-3/4"

Maximum Diameter 1-9/32"

Bulb T-9

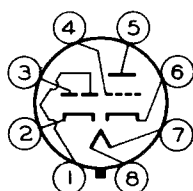
Base Intermediate-Shell Octal 8-Pin

Basing Designation for BOTTOM VIEW 8CK

Pin 1—Diode-No.2
Plate

Pin 2—Cathode of
Diode Units

Pin 3—Diode-No.1
Plate



Pin 4—Triode Grid

Pin 5—Triode Plate

Pin 6—Cathode of
Triode Unit

Pin 7—Heater

Pin 8—Heater

TRIODE UNIT

AMPLIFIER - Class A₁

Maximum Ratings. Design-Center Values:

PLATE VOLTAGE. 250 max. volts

GRID VOLTAGE:

Positive bias value. 0 max. volts

PLATE DISSIPATION. 1 max. watt

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. 100 250 . . volts

Grid Voltage -1 -2 . . volts

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Amplification Factor	79	70	
Plate Resistance (Approx.) . . .	64000	44000	ohms
Transconductance	1250	1600	μ mhos
Plate Current.	1.1	2.3	ma

Typical Operation as Resistance-Coupled Amplifier:

*See RESISTANCE-COUPLED AMPLIFIER CHARTS
at front of this Section.*

DIODE UNITS - Two

Maximum Ratings, Design-Center Values:

PLATE CURRENT (For Each Diode) 0.9 max. ma

MAY 1, 1950

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA