



6SQ7
6SQ7-GT/G

6SQ7, 6SQ7-GT/G

DUPLEX-DIODE HIGH-MU TRIODE

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.

	6SQ7	6SQ7-GT/G
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Direct Interelectrode Cap. ▲ ●

Triode Unit:

Grid to Plate	1.6	1.8 μ f
Grid to Cathode	3.2	4.2 μ f
Plate to Cathode	3.0	3.4 μ f
Maximum Overall Length	2-5/8"	3-5/16"
Maximum Seated Height	2-1/16"	2-3/4"
Maximum Diameter	1-5/16"	1-5/16"

Bulb

Metal Shell, MT-8

Base

{ Small Wafer
Octal 8-Pin
8Q

{ Small Wafer Octal
8-Pin, Sleeve
GT-8Q

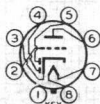
Basing Designation

Pin 1 { 6SQ7, Shell
6SQ7-GT/G,
Base Sleeve

Pin 2-Triode Grid

Pin 3-Cathode

Mounting Position



BOTTOM VIEW

Pin 4-Diode Plate #2
Pin 5-Diode Plate #1
Pin 6-Triode Plate
Pin 7-Heater
Pin 8-Heater

Any

Maximum Ratings Are Design-Center Values

TRIODE UNIT

Plate Voltage	300 max. volts
D-C Heater-Cathode Potential	100 max. volts

Characteristics - Class A₁ Amplifier:

Heater	6.3	6.3	volts
Plate	100	250	volts
Grid	-1	-2	volts
Amp. Fact.	100	100	
Plate Res.	110000	91000	ohms
Transcond.	900	1100	μ hos
Plate Cur.	0.4	0.9	ma.

Typical Operation-Resistance-Coupled Amplifier:

Same as Type 75 in RESISTANCE-COUPLED AMPLIFIER CHART.

DIODE UNITS-Two

Consideration of these units is given under Type 85. Circuits will be similar to those shown for Type 55 with fixed bias. Diode biasing of the triode unit of the 6SQ7 or 6SQ7-GT/G is not suitable. Diode curves under Type 6B7 apply to the 6SQ7 and 6SQ7-GT/G.

- ▲ with shell connected to cathode. Values are approximate.
- With no external shield. Values are approximate.

The curve under Type 75 also applies to the 6SQ7 and the 6SQ7-GT/G.

← Indicates a change.

DEC. 1, 1943

RCA VICTOR DIVISION

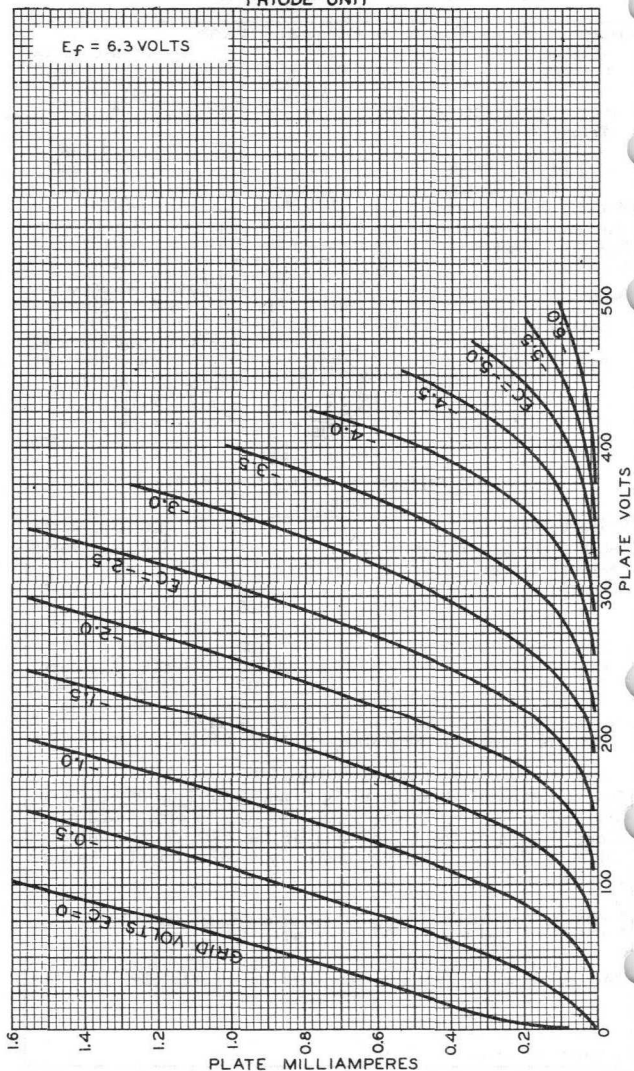
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

6SQ7



6SQ7

AVERAGE PLATE CHARACTERISTICS
TRIODE UNIT

DEC. 14, 1943

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RADIO CORPORATION OF AMERICA HARRISON, NEW JERSEY

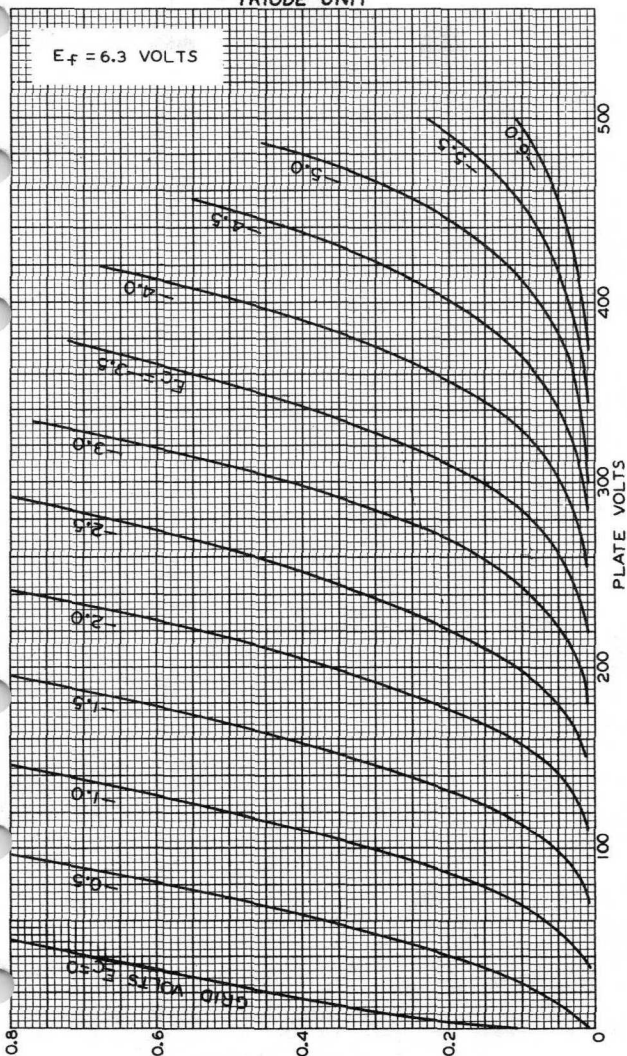
92CM-4975R2



6SQ7

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

$E_f = 6.3$ VOLTS



AUG. 13, 1941

RCA RADIONRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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