



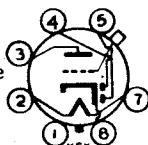
6Q7, 6Q7-G, 6Q7-GT

6Q7-GT
6Q7-G
6Q7

DUPLEX-DIODE HIGH-MU TRIODE

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

	6Q7	6Q7-G	6Q7-GT
Direct Interelectrode Cap.	$\blacktriangle$	$\blacktriangle\blacktriangle$	$\blacktriangle\blacktriangle$
Grid to Plate	1.4	1.5	1.6 μf
Grid to Cathode	5.0	3.2	2.2 μf
Plate to Cathode	3.8	5.0	5.0 μf
Overall Length	$\left\{ \begin{array}{l} 3-1/8" \\ \text{max.} \end{array} \right.$	$\left\{ \begin{array}{l} 4-7/32" \text{ to} \\ 4-15/32" \end{array} \right.$	3-5/16" max.
Seated Height	$\left\{ \begin{array}{l} 2-9/16" \\ \text{max.} \end{array} \right.$	$\left\{ \begin{array}{l} 3-21/32" \text{ to} \\ 3-29/32" \end{array} \right.$	2-3/4" max.
Maximum Diameter	1-5/16"	1-9/16"	1-5/16"
Bulb	Metal Shell, MT-8	ST-12	T-9
Cap	Miniature	$\left\{ \begin{array}{l} \text{Skirted} \\ \text{Miniature} \end{array} \right.$	$\left\{ \begin{array}{l} \text{Skirted Min.} \\ \text{Style C} \end{array} \right.$
Base	$\left\{ \begin{array}{l} \text{Small Wafer} \\ \text{Octal 7-Pin} \end{array} \right.$	$\left\{ \begin{array}{l} \text{Small Shell} \\ \text{Octal 7-Pin} \end{array} \right.$	$\left\{ \begin{array}{l} \text{Sm. Wafer Octal} \\ \text{7-Pin, Sleeve} \end{array} \right.$
Basing Designation	7V	G-7V	GT-7V
Pin 1	$\left\{ \begin{array}{l} \text{6Q7, Shell} \\ \text{6Q7-G, No Con.} \\ \text{6Q7-GT, Base Sleeve} \end{array} \right.$		Pin 4 - Diode Plate #2 Pin 5 - Diode Plate #1 Pin 7 - Heater Pin 8 - Cathode Cap - Triode Grid
Pin 2 - Heater			
Pin 3 - Triode Plate			
Mounting Position			Any



BOTTOM VIEW

TRIODE UNIT

Plate Voltage 300 max. volts

Characteristics - Class A_1 Amplifier:

Plate	100	250	volts
Grid	-1	-3	volts
Amp. Fact.	70	70	
Plate Res.	58000	58000	ohms
Transcond.	1200	1200	μmhos
Plate Cur.	0.8	1.0	ma.

Typical Operation - Resistance-Coupled Amplifier:

See 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 6Q7, 6Q7-G or 6Q7-GT is not suitable. Diode curves under Type 6B7 apply to the 6Q7, 6Q7-G, and 6Q7-GT.

$\blacksquare$ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

$\blacktriangle$ With shell connected to cathode. Values are approximate.

$\blacktriangle\blacktriangle$ With close-fitting shield connected to cathode. Values are approximate.

← Indicates a change.

Dec. 1, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

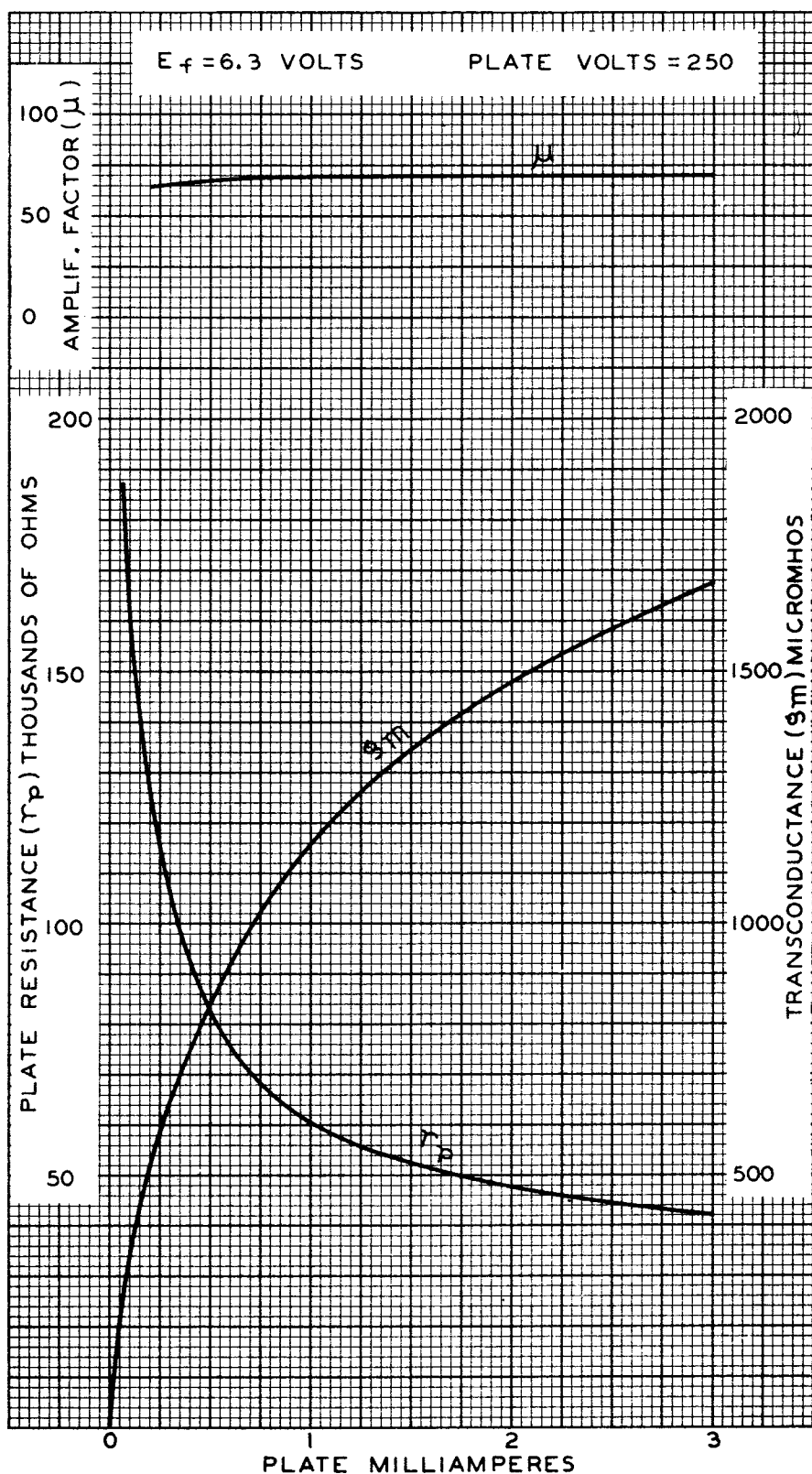
DATA

6Q7



6Q7

AVERAGE CHARACTERISTICS



JUNE 29, 1936

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4577

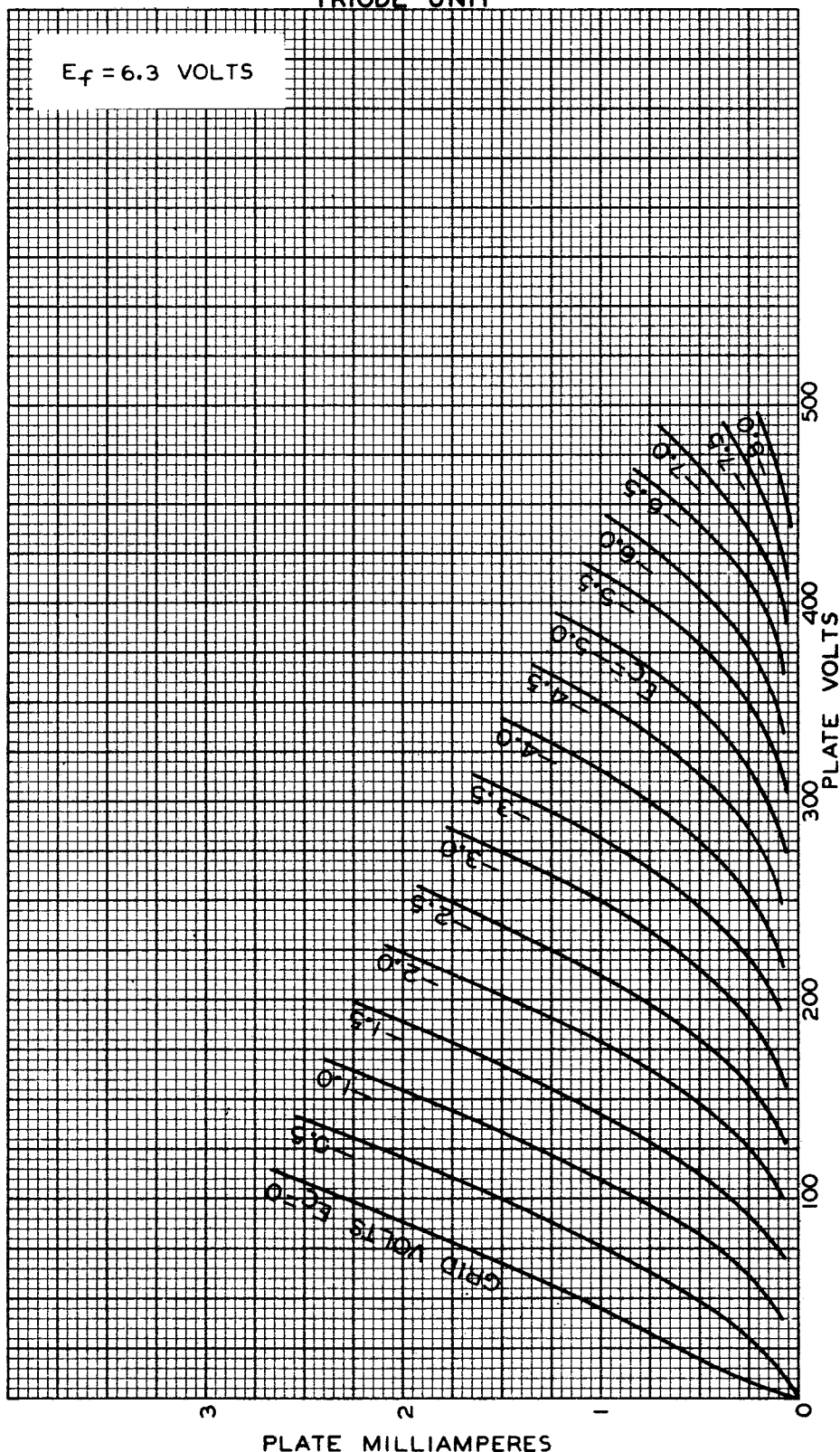


6Q7

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

6Q7

$E_f = 6.3$ VOLTS



SEPT. 10, 1941

RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

92C-4522R2