



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



DUPLEX-DIODE HIGH-MU TRIODE

Heater ■		Coated Unipotential Cathode		
Voltage	6.3	a-c or d-c volts		
Current	0.3	amp.		
		6Q7	6Q7-G	6Q7-GT
Direct Interelectrode Cap.	▲	▲▲	▲▲	▲▲
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	{ 3-1/8" max.	{ 4-7/32" to 4-15/32"	3-5/16" max.	
Seated Height	{ 2-9/16" max.	{ 3-21/32" to 3-29/32"	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	{ Skirted Miniature	{ Skirted Min. Style C	
Base	{ Small Wafer Octal 7-Pin	{ Small Shell Octal 7-Pin	{ Sm. Wafer Octal 7-Pin, Sleeve	
Basing Designation	7V	G-7V	GT-7V	
Pin 1 { 6Q7, Shell 6Q7-G, No Con. 6Q7-GT, Base Sleeve		Pin 4 - Diode Plate #2	Pin 5 - Diode Plate #1	
Pin 2 - Heater		Pin 7 - Heater		
Pin 3 - Triode Plate		Pin 8 - Cathode		
Mounting Position		Cap - Triode Grid		
		Any		
		BOTTOM VIEW		
		TRIODE UNIT		
Plate Voltage		300 max. volts		
<i>Characteristics - Class A₁ Amplifier:</i>				
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.	
<i>Typical Operation - Resistance-Coupled Amplifier:</i>				
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.				
■ 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.				
▲ With shell connected to cathode. Values are approximate.				
▲▲ With close-fitting shield connected to cathode. Values are approximate.				

← Indicates a change.

Dec. 1, 1941

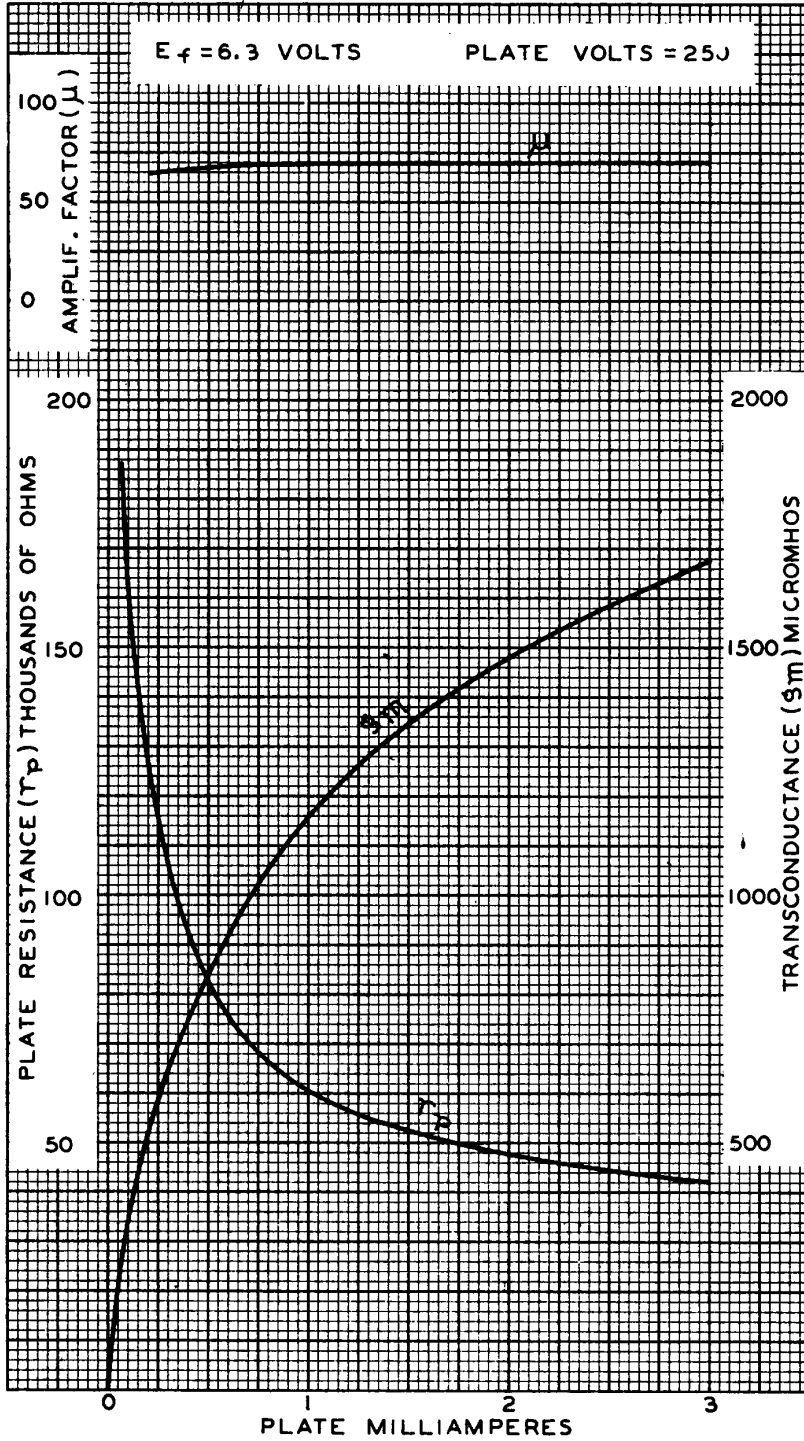
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DATA

6Q7



AVERAGE CHARACTERISTICS



JUNE 29, 1936

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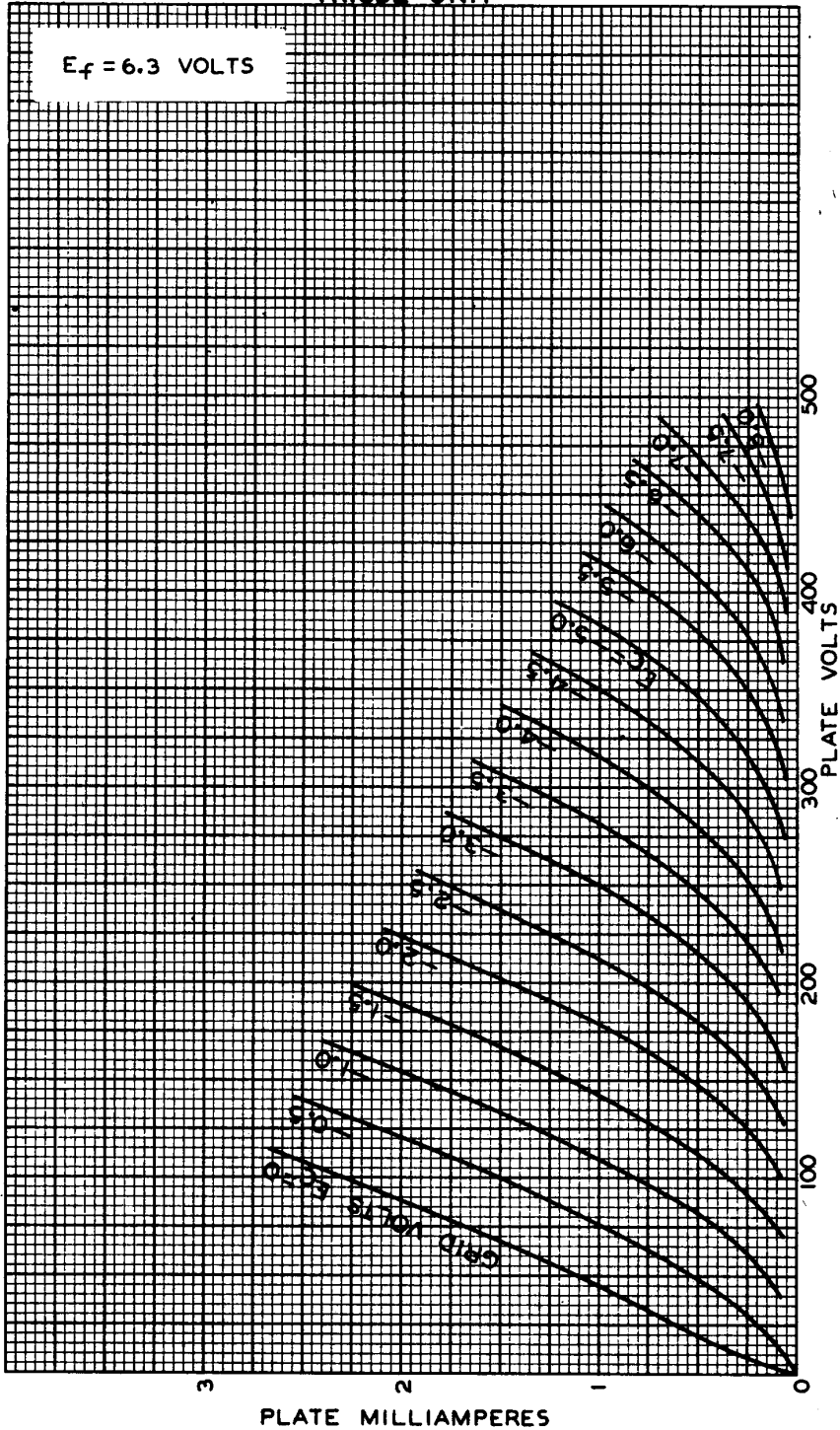
92C-4577



6Q7

6Q7

AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



SEPT. 10, 1941

RCA RADOTRON DIVISION
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