



6SQ7  
6SQ7-GT/G

# 6SQ7, 6SQ7-GT/G

## DUPLEX-DIODE HIGH-MU TRIODE

		Coated Unipotential Cathode	
Heater Voltage	6.3	a-c or d-c volts	
Current	0.3	amp.	
Direct Interelectrode Cap.		6SQ7	6SQ7-GT/G
<i>Triode Unit:</i>			
Grid to Plate	1.6	1.8	$\mu\text{f}$
Grid to Cathode	3.2	4.2	$\mu\text{f}$
Plate to Cathode	3.0	3.4	$\mu\text{f}$
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	T-9	
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 4 - Diode Plate #2	
Pin 2	Triode Grid	Pin 5 - Diode Plate #1	
Pin 3	Cathode	Pin 6 - Triode Plate	
Mounting Position		Pin 7 - Heater	
		Pin 8 - Heater	



BOTTOM VIEW

Maximum Ratings Are Design-Center Values

### TRIODE UNIT

Plate Voltage	300 max. volts	
D-C Heater-Cathode Potential	100 max. volts	
<i>Characteristics - Class A<sub>2</sub> Amplifier:</i>		
Heater	6.3	6.3 volts
Plate	100	250 volts
Grid	-1	-2 volts
Amp. Fact.	100	100
Plate Res.	11000	91000 ohms
Transcond.	900	1100 $\mu\text{mhos}$
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.

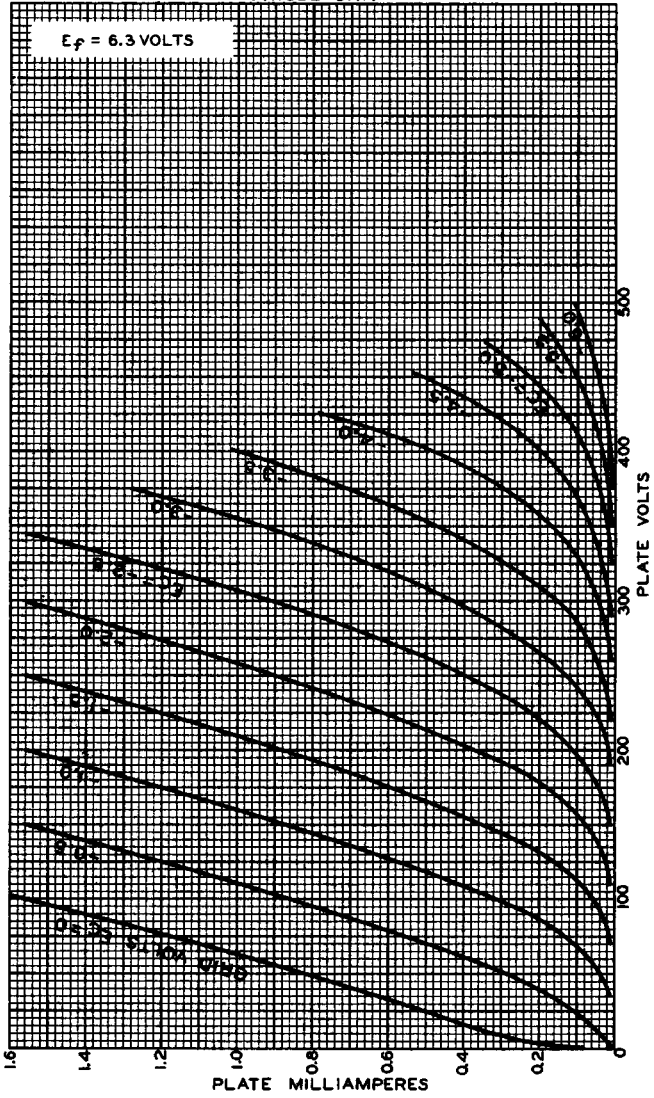
6SQ7



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# AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

$E_f = 6.3$  VOLTS



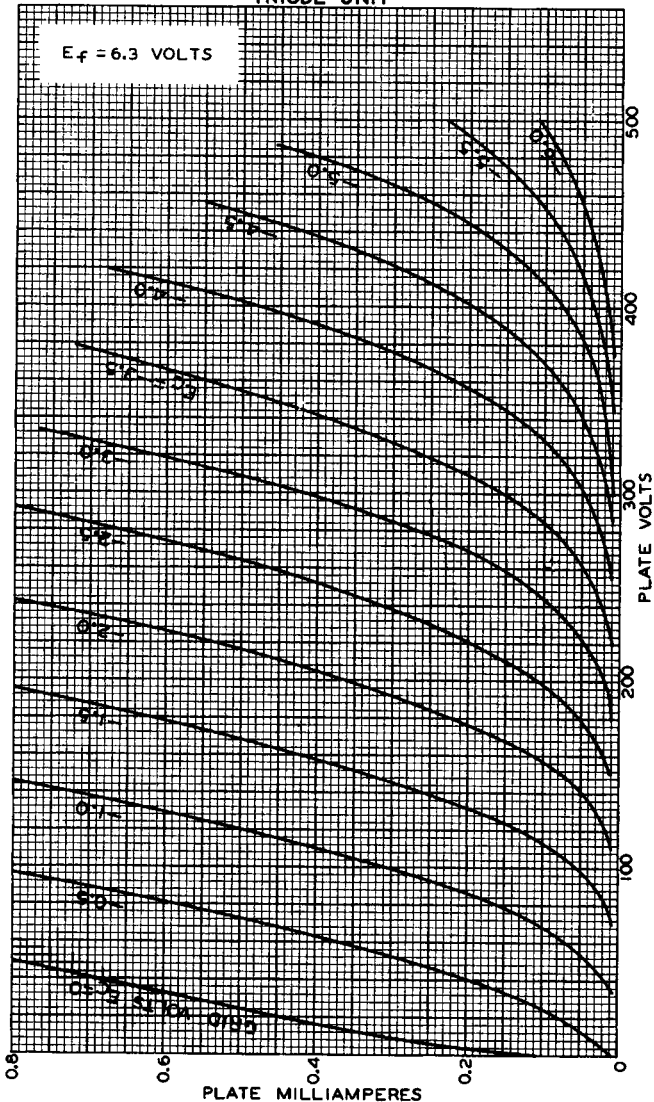


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# AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

$E_f = 6.3$  VOLTS



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RCA RADITRON DIVISION  
RCA MANUFACTURING COMPANY, INC.

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