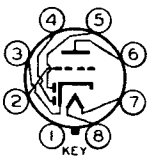
6SQ7, 6SQ7-GT/G

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*	
Direct Interelectrode Cap.	▲	●	←
Triode Unit:			
Grid to Plate	1.6	1.8	μμf
Grid to Cathode	3.2	4.2	μμf
Plate to Cathode	3.0	3.4	μμf
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	Small Wafer Octal 8-Pin, Sleeve	
Basing Designation	8Q	GT-8Q	
Pin 1	6SQ7, Shell; 6SQ7-GT/G, Base Sleeve		
Pin 2	Triode Grid		
Pin 3	Cathode		
Pin 4		Diode Plate #2	
Pin 5		Diode Plate #1	
Pin 6		Triode Plate	
Pin 7		Heater	
Pin 8		Heater	
Mounting Position			Any



BOTTOM VIEW

Maximum Ratings Are Design-Center Values

TRIODE UNIT

Plate Voltage		300 max.	volts
D-C Heater-Cathode Potential		100 max.	volts ←
Characteristics - Class A_1 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	μmhos
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.

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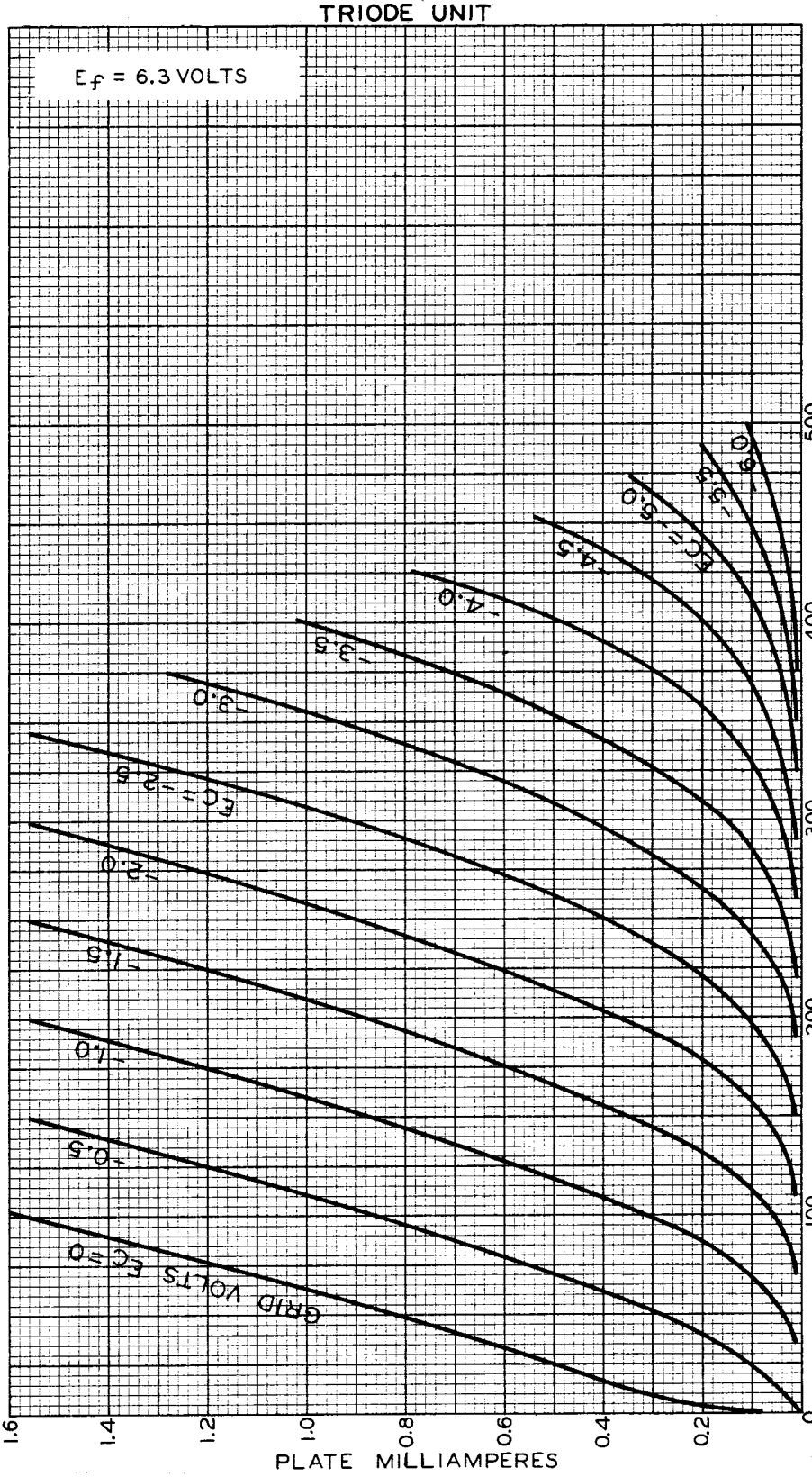
6SQ7

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