



5692

5692
SPECIAL RED
TUBE

MEDIUM-MU TWIN TRIODE

Intended for critical industrial applications where 10,000-hour life, extreme uniformity, rigid construction, and exceptional stability are paramount. Within its ratings, the 5692 may be used to replace its receiving-tube counterpart, type 6SN7-GT.

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage. 6.3 ± 5%* ac or dc volts

Current. 0.6 amp

Direct Interelectrode Capacitances:^o

	Min.	Av.	Max.	
Triode No.1:				
Grid to Plate.	3.0	3.5	4.0	μμf
Grid to Cathode.	1.8	2.3	2.8	μμf
Plate to Cathode	2.0	2.5	3.0	μμf
Triode No.2:				
Grid to Plate.	2.8	3.3	3.8	μμf
Grid to Cathode.	2.1	2.6	3.1	μμf
Plate to Cathode	2.2	2.7	3.2	μμf
Plate of Triode No.1 to				
Plate of Triode No.2	0.27	0.32	0.37	μμf

* Heater voltage may deviate ± 10% from rated value, provided such deviation occurs for less than 2% of the operating time.
o with no external shield.

Mechanical:

- Mounting Position. Any
- Maximum Overall Length 2-7/8"
- Maximum Seated Length. 2-5/16"
- Maximum Diameter 1-9/32"
- Bulb T-9
- Base Short Intermediate-Shell Octal
8-Pin, Non-Hygroscopic
- Basing Designation for BOTTOM VIEW 8B0

- Pin 1 - Grid of Triode No.2
- Pin 2 - Plate of Triode No.2
- Pin 3 - Cathode of Triode No.2
- Pin 4 - Grid of Triode No.1



- Pin 5 - Plate of Triode No.1
- Pin 6 - Cathode of Triode No.1
- Pin 7 - Heater
- Pin 8 - Heater

(continued on next page)

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INDUSTRIAL SERVICE

Including applications such as dc amplifiers, audio amplifiers,
and relaxation oscillators.

Values are for each unit

Maximum Ratings, Absolute Values:

DC PLATE VOLTAGE	275 max.	volts
DC PLATE-SUPPLY VOLTAGE.	330 max.	volts
GRID VOLTAGE:		
Negative bias range.	1 ^o min. to 100 max.	volts
Negative peak value.	200 max.	volts
DC GRID CURRENT.	2 max.	ma
DC CATHODE CURRENT.	15 max.	ma
PLATE DISSIPATION.	1.75 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	100 max.	volts
Heater positive with respect to cathode.	100 max.	volts
AMBIENT TEMPERATURE RANGE.	-55 to +90	°C

• For resistance-coupled amplifier applications, the negative bias may be as low as 0.5 volt.

Maximum Circuit Value (for any operating condition):

Grid-Circuit Resistance.	2 max.	megohms
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Characteristics and Range Values:

Heater Volts, 6.3; Plate Volts, 250; Grid Volts, -9

	<u>Min.</u>	<u>Av.</u>	<u>Max.</u>	
Heater Current	0.55	0.6	0.65	amp
Heater-Cathode Current with heater-cathode voltage of ± 100 volts.	-	-	5	μamp
Plate Current.	4.8	6.5	8.2	ma
Difference in Plate Current between triode units	-	-	2.0	ma
Plate Current for grid volt- age of -24 volts.	-	-	15	μamp
Reverse Grid Current	-	-	0.2	μamp
Amplification Factor	18	20	22	
Plate Resistance	-	9100	-	ohms
Transconductance	1825	2200	2575	μmhos

Typical Operation as Resistance-Coupled Amplifier (Each Unit)

See RESISTANCE-COUPLED AMPLIFIER CHART No. 13 at front of
Receiving Tube Section.

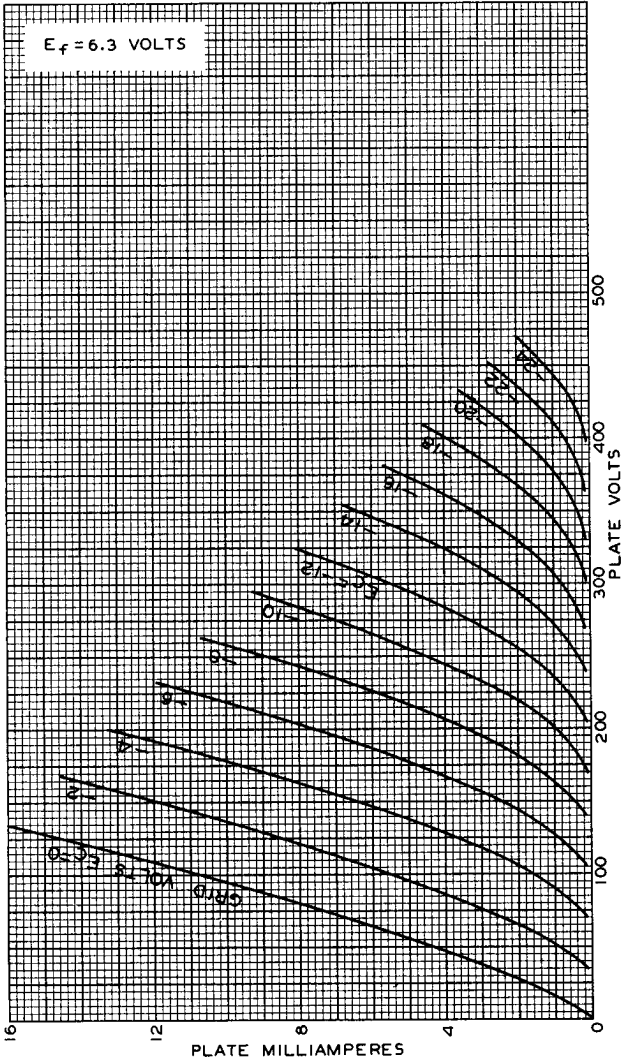
OUTLINE DIMENSIONS for the 5692 are the same
as those shown for type 5691



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AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



FEB. 21, 1941

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

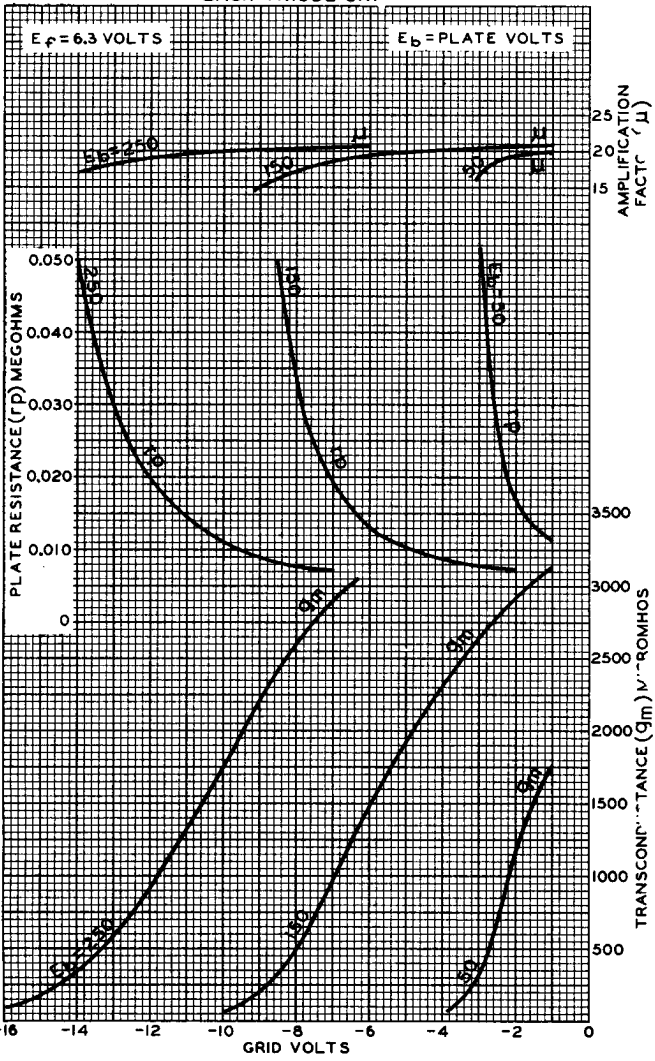
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AVERAGE CHARACTERISTICS
EACH TRIODE UNIT



NOV. 10, 1947

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