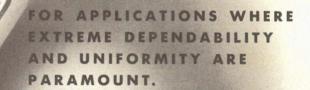
# RCA







5691

5692

5693



TUBE DEPARTMENT

RADIO CORPORATION of AMERICA

HARRISON, N. J.



# 5691, 5692, 5693

# SPECIAL RED TUBES

The present "Special Red Tubes" include a high-mu twin triode, 5691; a medium-mu twin triode, 5692; and a sharp-cutoff pentode, 5693. They are for industrial applications where 10 000-hour life, rigid construction, uniformity, and stability are paramount. The electrical characteristics, of the 5691, 5692, and 5693 are very similar to those of the 6SL7-GT, 6SN7-GT, and 6SJ7, respectively.

# • RCA - 5691 •

# HIGH-MU TWIN TRIODE

RCA-5691 is a high-mu twin triode designed and manufactured for critical industrial applications. In such service, it is particularly useful as a voltage amplifier.



In addition to the features illustrated on page 8 this type has its heaters for the two triode units connected in series so that failure of either heater in bridge circuits makes both units inoperative.

The 5691 is similar to the 6SL7-GT except that it has twice the heater current (0.6 ampere). It is recommended as a replacement for the 6SL7-GT only where provision for the increased heater current can be made, only where the operating conditions are within the ratings of 5691, and only where long life, rigid construction, extreme uniformity, and exceptional stability are needed. If the 5691 is operated at the higher maximum ratings of the 6SL7-GT, the full advantages of the 5691 will not be obtained.

### **GENERAL DATA**

### Electrical:

I

Heater, for Unipotential Cathodes	Heater,	for	Uni	potential	Cathodes
-----------------------------------	---------	-----	-----	-----------	----------

Voltage (AC or DC)		± 5% * Volts Amp
Direct Interelectrode Capacitances:		
Triode Unit No. 1— Min.	Av.	Max.
Grid to Plate 3.1	3.6	$4.1 \mu \mu f$
Grid to Cathode 1.9	2.4	2.0 μμf
Plate to Cathode 1.8	2.3	2.8 μμf
Triode Unit No. 2—		
Grid to Plate	3.6	4.1 μμf
Grid to Cathode 2.2	2.7	3.2 μμf
Plate to Cathode 2.1	2.6	$3.1 \mu \mu f$
Plate of Triode Unit No. 1 to		
Plate of Triode Unit No. 2. 0.27	0.32	$0.37 \mu \mu f$

<sup>\*</sup>May deviate  $\pm 10\,\%$  from rated value provided such deviation occurs for less than 2% of the operating time.

### GENERAL DATA (Cont'd)

# Mechanical:

Mounting	Position	Any
	Overall Length	
Maximum	Seated Length	2-5/16"
Maximum	Diameter	1-9/32"
Bulb		T-9
Base	Short Intermed	iate-Shell Octal
	8-Pin, N	on-Hygroscopic

### INDUSTRIAL SERVICE

Includes applications such as dc and audio amplifiers

Values are for Each Unit

# Maximum Ratings, Absolute Values:

DC PLATE VOLTAGE 275	max.	Volts
DC PLATE SUPPLY VOLTAGE	max.	Volts
GRID VOLTAGE:		
Negative bias range −1• min. to −100	max.	Volts
Negative peak value —200	max.	Volts
DC GRID CURRENT. 2	max.	Ma
	max.	
PLATE DISSIPATION 1	max.	Watt
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	0 °C
Maximum Circuit Value (for any operating con-	dition)	
G :1 G: D :	max.	

# Characteristics and Range Values:

### Heater Volts, 6.3; Plate Volts, 250; Grid Volts, -2

	Min.	Av.	Max.	
Heater Current	0.55	0.6	0.65	Amp
Heater-Cathode Current with				•
heater-cathode voltage of				
±100 volts		_	5	μa
Plate Current	1.7	2.3	2.9	Ma
Plate Current for grid volt-				
age of -5.5 volts	_		15	μa
Difference in Plate Current				
between triode units			0.9	Ma
Reverse Grid Current			0.2	μa
Amplification Factor	60	70	80	
Plate Resistance		44000	_	Ohms
Transconductance	1300	1600	1900	μmhos

<sup>•</sup> For resistance-coupled amplifier applications, the negative bias may be



# Typical Operation—Resistance-Coupled Amplifier (Each Triode Unit):

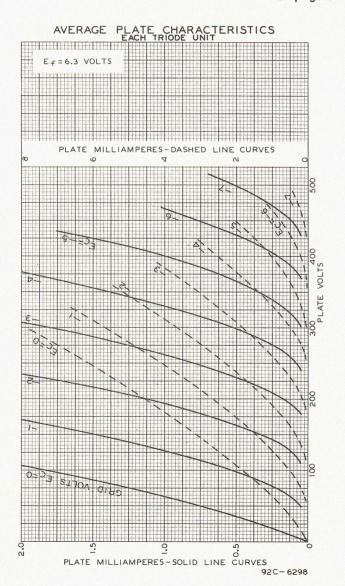
Plate-Supply Voltage		90			180			300		Volts
Plate Load Resistor	0.1	0.22	0.47	0.1	0.22	0.47	0.1	0.22	0.47	Megohm
Grid Resistor (of following stage)	0.22	0.47	1.0	0.22	0.47	1.0	0.22	0.47	1.0	Megohm
Cathode Resistor	4700	7400	14400	2600	4600	9000	2180	3970	7550	Ohms
Cathode Bypass Capacitor	2.1	1.3	0.7	2.8	1.6	0.9	3.1	1.8	1	$\mu \mathbf{f}$
Blocking Capacitor‡	0.014	0.0065	0.0035	0.014	0.0065	0.0035	0.014	0.0065	0.0035	$\mu \mathbf{f}$
Peak Output Voltage†	9	13	17	30	37	44	59	76	88	Volts
Voltage Gain	$27\ $	$35\S$	40§	$33\P$	42¶	46¶	36¶	45¶	50¶	

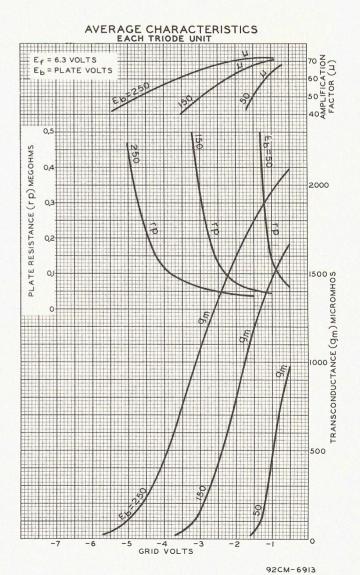
<sup>†</sup>This peak output voltage is obtained across the grid resistor of the following stage at any frequency within the flat region of the output vs frequency curve, and is for the condition where the signal level is adequate to swing the grid of the resistance-coupled amplifier tube to the point where its grid starts to draw current.

§At an output voltage of 4 volts rms.

### **DIMENSIONAL OUTLINE and SOCKET CONNECTIONS**

for the 5691 are the same as those shown on page 5 for the 5692





<sup>‡</sup>The cathode bypass capacitors and blocking capacitors have been chosen to give output voltages at 100 cps  $(f_1)$  which are equal to 0.8 of the mid-frequency value. For any other value of  $(f_1)$ , multiply the values of cathode bypass and blocking capacitors by  $100/f_1$ .

At an output voltage of 3 volts rms.

<sup>¶</sup>At an output voltage of 5 volts rms.



# • RCA - 5692 •

# MEDIUM-MU TWIN TRIODE

RCA-5692 is a medium-mu twin triode designed and manufactured for critical industrial applications. It is particularly useful as a balanced dc amplifier, multivibrator, blocking oscillator, and resistance-coupled amplifier.



In addition to the features illustrated on page 8, this type has its heaters for the two triode units connected in series so that failure of either heater in bridge circuits makes both units inoperative.

The electrical characteristics of the 5692 are similar to those of the 6SN7-GT. The 5692 is recommended as a replacement for the 6SN7-GT only where the operating conditions are within the ratings of the 5692 and only where long life, rigid construction, extreme uniformity, and exceptional stability are needed. If the 5692 is operated at the higher maximum ratings of the 6SN7-GT, the full advantages of the 5692 will not be obtained.

### GENERAL DATA

Electrical:			
Heater, for Unipotential Cathodes:			
Voltage (AC or DC)	$6.3 \pm$	5%* V	olts
Current	0.6	A	mp
Direct Interelectrode Capacitances:			
Triode Unit No. 1— Min.	Av.	Max.	
Grid to Plate 3.0	3.5	4.0	$\mu\mu\mathbf{f}$
Grid to Cathode 1.8	2.3	2.8	$\mu\mu f$
Plate to Cathode 2.0	2.5	3.0	$\mu\mu f$
Triode Unit No. 2—			
Grid to Plate 2.8	3.3	3.8	$\mu\mu f$
Grid to Cathode 2.1	2.6	3.1	$\mu\mu\mathbf{f}$
Plate to Cathode 2.2	2.7	3.2	$\mu\mu f$
Plate of Triode Unit No. 1 to			
Plate of Triode Unit No. 2 0.27	0.32	0.37	$\mu\mu f$

### Mechanical:

Mounting Position	Any
Maximum Overall Length	
Maximum Seated Length	2-5/16"
Maximum Diameter	1-9/32"
Bulb	T-9
BaseShort Inte	rmediate-Shell Octal
8-P	in, Non-Hygroscopic

# INDUSTRIAL SERVICE

Includes applications such as dc amplifiers, audio amplifiers and relaxation oscillators

Values are for Each Unit

## Maximum Ratinas, Absolute Values:

Amplification Factor .....

Plate Resistance

Maximum Ratings, Absolute Vo	ilues:			
DC PLATE VOLTAGE		275	max	. Volts
DC PLATE SUPPLY VOLTAGE				
GRID VOLTAGE:				
Negative bias value —1•	min. to	o —100 :	max.	Volts
Negative peak value				Volts
DC GRID CURRENT.		. 2	max.	Ma
DC CATHODE CURRENT		. 15	max.	Ma
PLATE DISSIPATION		. 1.75	max.	Watts
PEAK HEATER-CATHODE VOLTAG				
Heater negative with				
respect to cathode		. 100	max.	Volts
Heater positive with				
respect to cathode		. 100	max.	Volts
AMBIENT TEMPERATURE RANGE		. — 55 t	0 +90	o °C
Maximum Circuit Value (for any				
Maximum Circuit Value (for any Grid-Circuit Resistance	opera	ting cond	dition	
Grid-Circuit Resistance	opera	ting cond	dition	):
Grid-Circuit Resistance	opera	ting cond	dition max.	):
Grid-Circuit Resistance	opera	ting cond	dition max. —9	):
Grid-Circuit Resistance	v opera ues: ts, 250; G	ting cond	dition max. —9	):
Grid-Circuit Resistance Characteristics and Range Value Heater Volts, 6.3; Plate Vol	v opera Jes: ts, 250; G Min.	ting cond. $2:$ Frid Volts, $Av.$	dition max. —9 <sub>Max</sub> .	): Meg
Characteristics and Range Value Heater Volts, 6.3; Plate Volts Heater Current Heater-Cathode Current with heater-cathode voltage of	v opera Jes: ts, 250; G Min.	ting cond. $2:$ Frid Volts, $Av.$	dition max. —9 <sub>Max</sub> .	): Meg
Grid-Circuit Resistance Characteristics and Range Value Heater Volts, 6.3; Plate Vol Heater Current Heater-Cathode Current with	v opera Jes: ts, 250; G Min. 0.55	ting cond 2 : Brid Volts, Av. 0.6	dition max. —9 <sub>Max</sub> .	): Meg
Characteristics and Range Value Heater Volts, 6.3; Plate Volts Heater Current Heater-Cathode Current with heater-cathode voltage of	v opera Jes: ts, 250; G Min.	ting cond. $2:$ Frid Volts, $Av.$	max.  —9  Max.  0.65	): Meg Amp
Grid-Circuit Resistance Characteristics and Range Value Heater Volts, 6.3; Plate Volte Heater Current Heater-Cathode Current with heater-cathode voltage of ±100 volts Plate Current Plate Current for grid volt-	v opera Jes: ts, 250; G Min. 0.55	ting cond 2 : Brid Volts, Av. 0.6	max.  —9  Max. 0.65	): Meg Amp
Grid-Circuit Resistance Characteristics and Range Valuation Heater Volts, 6.3; Plate Volte Heater Current Heater-Cathode Current with heater-cathode voltage of ±100 volts Plate Current Plate Current for grid voltage of —24 volts	v opera Jes: ts, 250; G Min. 0.55	ting cond 2 : Brid Volts, Av. 0.6	max.  —9  Max. 0.65	): Meg Amp
Grid-Circuit Resistance Characteristics and Range Valuation Heater Volts, 6.3; Plate Volte Heater Current Heater-Cathode Current with heater-cathode voltage of ±100 volts Plate Current Plate Current for grid voltage of —24 volts Difference in Plate Current	v opera Jes: ts, 250; G Min. 0.55	ting cond 2 : Brid Volts, Av. 0.6	max.	): Meg Amp μa Ma
Grid-Circuit Resistance Characteristics and Range Valuation Heater Volts, 6.3; Plate Volte Heater Current Heater-Cathode Current with heater-cathode voltage of ±100 volts Plate Current Plate Current for grid voltage of —24 volts	v opera Jes: ts, 250; G Min. 0.55	ting cond 2 : Brid Volts, Av. 0.6	max.	): Meg Amp μa Ma

# Typical Operation—Resistance-Coupled Amplifier (Each Triode Unit):

Plate-Supply Voltage		90			180			300		Volts
Plate Load Resistor	0.05	0.1	0.25	0.05	0.1	0.25	0.05	0.1	0.25	Megohm
Grid Resistor (of following stage)	0.1	0.25	0.5	0.1	0.25	0.5	0.1	0.25	0.5	Megohm
Cathode Resistor	2070	3940	9760	1490	2830	7000	1270	2440	5770	Ohms
Cathode Bypass Capacitor	2.66	1.29	0.55	2.86	1.35	0.62	2.96	1.42	0.64	$\mu \mathbf{f}$
Blocking Capacitor!	0.029	0.012	0.007	0.032	0.012	0.007	0.034	0.0125	0.0075	$\mu \mathbf{f}$
Peak Output Voltage†	14	17	18	30	34	36	51	56	57	Volts
Voltage Gain¶	12	13	13	13	14	14	14	14	14	

 $<sup>^{\</sup>rm o}$  For resistance-coupled amplifier applications, the negative bias may be as low as  $-0.5~{\rm vort.}$ 

20

9100

2200

22

2575

Ohms

µmhos.

<sup>†</sup>This peak output voltage is obtained across the grid resistor of the following stage at any frequency within the flat region of the output vs frequency curve, and is for the condition where the signal level is adequate to swing the grid of the resistance-coupled amplifier tube to the point where its grid starts to draw current.

<sup>\*</sup>May deviate  $\pm 10\%$  from rated value provided such deviation occurs for less than 2% of the operating time.

\*With no external shield.

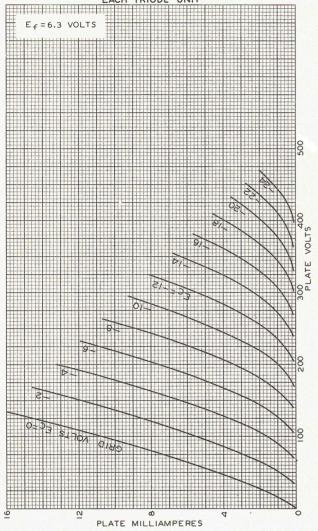
¶At an output voltage of 5 volts rms.

<sup>‡</sup>The cathode bypass capacitors and blocking capacitors have been chosen to give output voltages at 100 cps (f<sub>1</sub>) which are equal to 0.8 of the mid-frequency value. For any other value of (f<sub>1</sub>), multiply the values of cathode bypass and blocking capacitors by 100/f<sub>1</sub>.



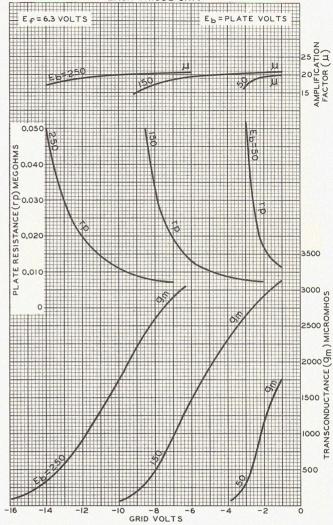
# 5692

# AVERAGE PLATE CHARACTERISTICS EACH TRIODE UNIT



92CM-6257

# AVERAGE CHARACTERISTICS EACH TRIODE UNIT



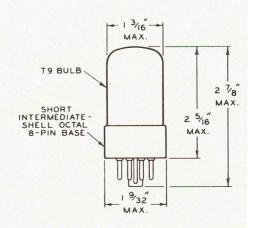
92CM-6914

# SOCKET CONNECTIONS **Bottom View**

# PT2 2 (8)<sub>H</sub> 8BD

Pin 1: Grid of Triode Unit No. 2 Pin 2: Plate of Triode Unit No. 2 Pin 3: Cathode of Triode Unit No. 2 Pin 4: Grid of Triode Unit No. 1 Pin 5: Plate of Triode Unit No. 1 Pin 6: Cathode of Triode Unit No. 1 Pin 7: Heater Pin 8: Heater

# DIMENSIONAL OUTLINE





# • RCA - 5693 •

# SHARP-CUTOFF PENTODE

RCA-5693 is a sharp-cutoff pentode designed and manufactured for critical industrial applications. In such service, it is particularly useful as a high-gain resistancecoupled amplifier.



This tube can be operated with a grid-No.1 resistor having a value as high as 40 megohms depending on the operating conditions as given on page 7.

The electrical characteristics of the 5693 are similar to those of the 6SJ7. The 5693 is recommended as a replacement for the 6SJ7 only where the operating conditions are within the ratings of the 5693, and only where long life, rigid construction, extreme uniformity and exceptional stability are needed. If the 5693 is operated at the higher maximum ratings of the 6SJ7, the full advantages of the 5693 will not be obtained.

## **GENERAL DATA**

Electrical:			
Heater, for Unipotential Cathode:			
Voltage (AC or DC)	6.3	±5%* V	olts
Current	0.3	1	Amp
Direct Interelectrode Capacitances:	2		
	in. Av.	Max.	
Grid to Plate		0.005	$\mu\mu f$
Input 4	.8 5.3	5.8	$\mu\mu f$
Output 5	.6 6.2	6.8	$\mu\mu f$
Mechanical:			
Mounting Position			Any
Maximum Overall Length		2-	
Seated Length	1-31/	$/32'' \pm 3$	/32"
Maximum Diameter		1-5,	/16"
Bulb			
Base Sm	all-Wafer	Octal 8-	Pin,
		Hygrosc	

# Typical Operation—Resistance-Coupled Amplifier:

Plate & Grid-No. 2 Supply Voltage		90			180			300		Volts
Plate Load Resistor	0.1	0.25	0.5	0.1	0.25	0.5	0.1	0.25	0.5	Megohm
등이 많아서 없는데 그리고 있다면 하고 있다면 하고 있다면 하는데	0.25	0.5	1	0.25	0.5	1	0.25	0.5	1	Megohm
	0.29	0.92	1.7	0.31	0.94	2.2	0.37	1.10	2.2	Megohms
	880	1700	3800	800	1060	2180	530	860	1410	Ohms
Grid-No. 2 Bypass Capacitor 0.		0.045	0.03	0.09	0.06	0.04	0.09	0.06	0.05	$\mu \mathbf{f}$
Cathode Bypass Capacitor		4.5	2.4	8	6.6	3.8	10.9	7.4	5.8	$\mu \mathbf{f}$
Blocking Capacitor 0.	.016	0.005	0.002	0.015	0.004	0.002	0.016	0.004	0.002	$\mu { m f}$
Peak Output Voltage†	23	18	22	60	47	44	96	88	79	Volts
Voltage Gain¶	68	93	119	82	131	192	98	167	238	

¶At an output voltage of 5 volts rms.

¶At an output voltage of 5 volts rms.

\*May deviate ±10% from rated value provided such deviation occurs for less than 2% of the operating time.

\*With shell connected to cathode.

\*\*The 5693 may be operated at a grid-No.2 voltage as high as the maximum rated grid-No.2 supply voltage (330 volts) when the grid-No.2 dissipation is not exceeded for any signal conditions and when a resistor is used in series with the grid No.2 and its supply voltage.

■For resistance-coupled amplifier applications, the negative grid-No.1 bias may be as low as −0.5 volt.

### INDUSTRIAL SERVICE

Includes applications such as dc and resistance-coupled amplifiers

Maximum Ratings, Absolute Values:						
DC PLATE VOLTAGE	max.	Volts				
DC PLATE SUPPLY VOLTAGE	max.	Volts				
DC GRID-No. 3 (SUPPRESSOR) VOLTAGE:						
Negative bias value $\left\{ egin{array}{c} 0 \\ -100 \end{array} \right.$	min.	Volts				
DC GRID-No. 2 (SCREEN) VOLTAGE125**	max.	Volts				
DC GRID-No. 2 SUPPLY VOLTAGE	max.	Volts				
GRID-No. 1 (CONTROL-GRID) VOLTAGE:						
Negative bias range —1■ min. to —50	max.	Volts				
Negative peak value —50	max.	Volts				
DC CATHODE CURRENT 10	max.	Ma				
PLATE DISSIPATION	max.	Watts				
GRID-No. 2 DISSIPATION	max.	Watt				
PEAK HEATER-CATHODE VOLTAGE: Heater negative with						
respect to cathode	max.	Volts				
Heater positive with						
respect to cathode	max.	Volts				
Ambient Temperature Range —55	to $+90$	) °C				
Maximum Circuit Value:						
See curve on page 7 for max. values of grid-No.1 resistor.						

Heater Volts, 6.3: Plate Volts, 250: Grid-No. 3 Volts, 0:

Characteristics and Range Values:

7011s, 230	o; Gria-INC	). 3 VOITS, U;	
00; Grid-	No. 1 Vo	lts, —3	
Min.	Av.	Max.	
0.275	0.3	0.325	Amp
64 <del>-</del>	_	5	μa
2.3	3.0	3.7	Ma
2	30	80	μa
150	450	750	μa
0.60	0.85	1.10	Ma
_	_	0.1	μa
1.0	_	<del></del>	Meg
1400	1650	1900	μmhos
	20; Gride Min. 0.275 — 2.3 2 150 0.60 — 1.0	00; Grid-No. 1 Vo  Min. Av. 0.275 0.3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

<sup>•</sup> The cathode and grid-No.2 bypass capacitors and blocking capacitors have been chosen to give output voltages at 100 cps  $(f_1)$  which are equal to 0.7 of the mid-frequency value. For any other value of  $(f_1)$ , muttiply the values of cathode bypass, grid-No.2 bypass, and blocking capacitors by  $100/f_1$ .

<sup>†</sup>This peak output voltage is obtained across the grid resistor of the following stage at any frequency within the flat region of the output ws frequency curve, and is for the condition where the signal level is adequate to swing the grid of the resistance-coupled amplifier tube to the point where its grid starts to draw current.



# 5693

# OPERATION CHARACTERISTICS

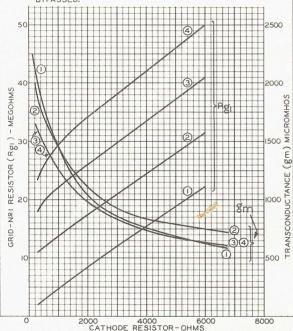
Ef=	6.3 VOLTS	PLATE VOLTS = 3	300 GRID - Nº	
CURVE	GRID-Nº2 RESISTOR	GRID-Nº2 SUPPLY VOLTS	ON THE FO	
- 1	O MEG.	100	ΔI <sub>K</sub> =300μA	
2	0.25 MEG.	300	EXPRESSIN AS A RATIO	
3	0.5 MEG.	300	ΔI <sub>K</sub> 30	
4	0.75 MEG.	300	$\Delta Ig_i = 0$	

GRID-Nº 3 VOLTS = 0

THESE CURVES ARE BASED
ON THE FOLLOWING VALUES:  $\Delta I_R = 300 \mu AMP$ ,  $\Delta I_{gl} = 0.1 \mu AMP$ EXPRESSING THESE VALUES
AS A RATIO , WE HAVE:  $\frac{\Delta I_K}{\Delta I_{gl}} = \frac{300}{0.1} \text{ OR } 3000$ 

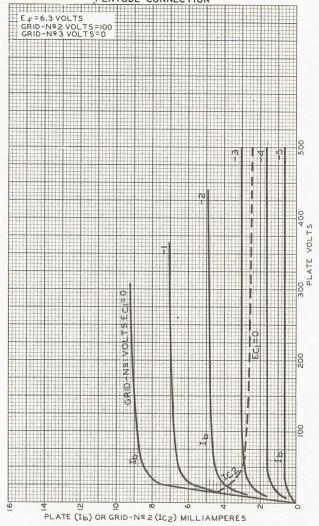
FOR THOSE APPLICATIONS PERMITTING OTHER VALUES OF  $\Delta I_{K}$ , A NEW RATIO OF  $\Delta I_{K}/\Delta I_{G}$  CAN BE CALCULATED. THE VALUES OF RG AS READ FROM THE CURVE MUST BE MULTIPLIED BY A FACTOR WHICH IS THE QUOTIENT OF THE NEW RATIO DIVIDED BY THE OLD RATIO. FOR EXAMPLE, IF THE NEW RATIO IS 6000 THE MULTIPLYING FACTOR IS 6000/3000, OR 2, AND VALUES OF RG AS READ FROM THE CURVE ARE THEREFORE MULTIPLIED BY 2.

NOTE: TRANSCONDUCTANCE CURVES WERE OBTAINED WITH GRID-Nº2 RESISTOR AND CATHODE RESISTOR SUITABLY BYPASSED.



92CM-6920

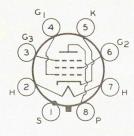
# AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



92CM-4939RI

# SOCKET CONNECTIONS

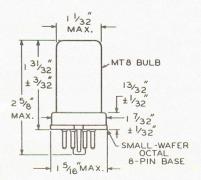
# **Bottom View**



8N

Pin 1: Shell Pin 2: Heater Pin 3: Grid No. 3 Pin 4: Grid No. 1 Pin 5: Cathode Pin 6: Grid No. 2 Pin 7: Heater Pin 8: Plate

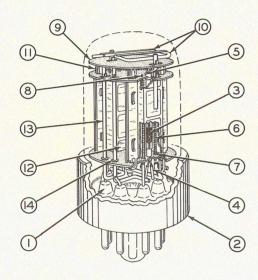
# DIMENSIONAL OUTLINE



# RCA Special Red

# TUBES

# for 10,000 Hours of



- 1—Low-leakage button stem.
- 2—Non-hygroscopic base.
- 3—Pure-tungsten heater for high mechanical strength.
- 4—Sleeves on heater legs insure good mechanical and electrical bond between heater and heater leads.
- 5—Cathode sleeves locked to mica insulator.
- 6—Grid plated to minimize variation in contact potential.
- 7—"Stops" prevent vertical movement of grid rods.
- 8—Grid rods fit tightly into mica insulators.
- 9—Extra mica insulator provides getter shield.
- 10—Two getters for long life.
- 11—Plates held rigid by plate ears wedged into mica insulators.
- 12—Plates are designed to minimize electron coupling between units.
- 13—Mount secured by five supporting rods.
- 14—Twelve reinforcing eyelets provide a firm bond between mica insulators and five supporting rods.

Structure of RCA-5691 and RCA-5692

# Dependable Service

- when the proper operation of vital manufacturing, communications, laboratory, and other industrial equipment depends on tube uniformity and stability.
- when tube failure means factory shutdown or hazardous operation.
- when initial tube cost is secondary to cost of maintenance.
- WHENEVER the accent is on quality—
   and quality alone—

USE RCA "Special Red" Tubes: RCA-5691, RCA-5692, or RCA-5693. They are skillfully engineered, ruggedly designed, precisely manufactured, exactingly processed, and rigorously tested, and will withstand impact shocks of 500g for short periods, and 2.5g of continuous vibration for hundreds of hours.

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