

## Beam Power Tube

FORCED-AIR COOLED

COAXIAL-ELECTRODE STRUCTURE      370 WATTS CW OUTPUT UP TO 150 Mc  
 UNIPOENTIAL CATHODE                  140 WATTS CW OUTPUT AT 500 Mc  
 COMPACT DESIGN                        INTEGRAL RADIATOR

For Use at Frequencies up to 500 Mc

## GENERAL DATA

## Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) <sup>a</sup>	.....	6.0 ± 10%      volts
Current at heater volts = 6.0	.....	2.6      amp
Minimum heating time.	.....	30      sec

Mu-Factor, Grid No.2 to Grid No.1,  
 for grid-No.2 volts = 300 and

grid-No.2 ma. = 50.	.....	5
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Direct Interelectrode Capacitances:<sup>b</sup>

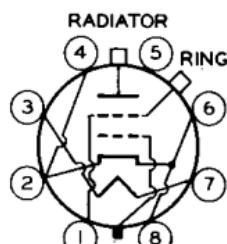
Grid No.1 to plate.	.....	0.03 $\mu\mu f$
Grid No.1 to cathode, grid No.2, and heater.	.....	16 $\mu\mu f$
Plate to cathode, grid No.2, and heater.	.....	4.4 $\mu\mu f$

## Mechanical:

Operating Position.	.....	Any
Maximum Overall Length.	.....	2.404"
Maximum Seated Length.	.....	1.850"
Maximum Diameter.	.....	1.640"
Weight (Approx.).	.....	4 oz
Radiator.	.....	Integral part of tube
Socket.	.....	Air-System Socket, such as Johnson No.124-110-1 <sup>c</sup> (Supplied with Air Chimney)
Base.	.....	Special 8-Pin

## BOTTOM VIEW

- Pin 1 - Grid No.2<sup>d</sup>
- Pin 2 - Cathode
- Pin 3 - Heater
- Pin 4 - Cathode
- Pin 5 - Do Not Use
- Pin 6 - Cathode
- Pin 7 - Heater



- Pin 8 - Cathode
- Base Index Plug - Grid No.1
- Radiator - Plate
- Ring Terminal<sup>e</sup> - Grid No.2

## Air Flow:

Through indicated air-system socket—This fitting directs the air over the base seals; past the grid-No.2 seal, glass envelope, and plate seal; and through the radiator to provide effective cooling with minimum air flow. When the tube is operated at maximum plate dissipation for each class of service, a minimum air flow of 5.6 cfm

→ Indicates a change.



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through the system is required. The corresponding pressure drop is 0.45 inch of water. These requirements are for operation at sea level and at an ambient temperature of 20° C. At higher altitudes and ambient temperatures, the air flow must be increased to maintain the respective seal temperatures and the plate temperature within maximum ratings.

**Without air-system socket**—If an air-system socket is not used, it is essential that adequate cooling air be directed over the base seals, past the envelope, and through the radiator. Under these conditions and with the tube operating at maximum plate dissipation for each class of service, a minimum air flow of 5.3 cfm must pass through the radiator. The corresponding pressure drop is 0.28 inch of water. These requirements are for operation at sea level and at an ambient temperature of 20° C. At higher altitudes and ambient temperatures, the air flow must be increased to maintain the respective seal temperatures and the plate temperature within maximum ratings.

Plate Temperature (Measured on base end of plate surface at junction with fins) . . .	250 max.	°C
Temperature of Plate Seal . . . . .	200 max.	°C
Temperature of Base Seals and		
Grid-No.2 Seal. . . . .	175 max.	°C

## AF POWER AMPLIFIER & MODULATOR — Class AB<sub>1</sub><sup>f</sup>

### Maximum CCS<sup>g</sup> Ratings, Absolute-Maximum Values:

DC PLATE VOLTAGE. . . . .	2000	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . . . .	400	max.	volts
MAX.-SIGNAL DC PLATE CURRENT <sup>h</sup> . . . . .	250	max.	ma
GRID-No.2 INPUT <sup>h</sup> . . . . .	12	max.	watts
PLATE DISSIPATION <sup>h</sup> . . . . .	250	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode. . .	150	max.	volts
Heater positive with respect to cathode. . .	150	max.	volts

### Typical CCS Operation:

Values are for 2 tubes

DC Plate Voltage. . . . .	800	1000	1500	2000	volts
DC Grid-No.2 Voltage. . . . .	300	300	300	300	volts
DC Grid-No.1 (Control- Grid) Voltage . . . . .	-40	-43	-50	-50	volts
Peak AF Grid-No.1-to- Grid-No.1 Voltage . . . . .	80	86	100	100	volts
Zero-Signal DC Plate Current. . . . .	210	165	100	100	ma
Max.-Signal DC Plate Current. . . . .	435	450	456	470	ma
Zero-Signal DC Grid-No.2 Current . . . . .	0	0	0	0	ma
Max.-Signal DC Grid-No.2 Current . . . . .	76	52	42	36	ma



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Effective Load Resistance (Plate to plate) . . . . .	4400	4250	6570	8760	ohms
Max.-Signal Driving Power (Approx.) . . . . .	0	0	0	0	watts
Max.-Signal Power Output (Approx.) . . . . .	170	230	400	580	watts

**Maximum Circuit Values:**

Grid-No.1-Circuit Resistance (Per tube) . . . 0.1 max. megohm

**AF POWER AMPLIFIER & MODULATOR — Class AB<sub>2</sub><sup>j</sup>****Maximum CCS<sup>g</sup> Ratings, Absolute-Maximum Values:**

DC PLATE VOLTAGE . . . . .	2000	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . .	400	max.	volts
MAX.-SIGNAL DC PLATE CURRENT <sup>h</sup> . . . . .	250	max.	ma
GRID-No.2 INPUT <sup>h</sup> . . . . .	12	max.	watts
PLATE DISSIPATION <sup>h</sup> . . . . .	250	max.	watts
GRID-No.1 (CONTROL-GRID) INPUT . . . . .	2	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode . . .	150	max.	volts
Heater positive with respect to cathode . . .	150	max.	volts

**Typical CCS Operation:**

Values are for 2 tubes

DC Plate Voltage . . . . .	800	1000	1500	2000	volts
DC Grid-No.2 Voltage . . . . .	300	300	300	300	volts
DC Grid-No.1 Voltage . . . . .	-40	-45	-50	-50	volts
Peak AF Grid-No.1-to-					
Grid-No.1 Voltage . . . . .	90	98	106	106	volts
Zero-Signal DC Plate Current . . . . .	210	166	100	100	ma
Max.-Signal DC Plate Current . . . . .	500	493	500	500	ma
Zero-Signal DC Grid-No.2					
Current . . . . .	0	0	0	0	ma
Max.-Signal DC Grid-No.2					
Current . . . . .	80	58	46	36	ma
Effective Load Resistance					
(Plate to plate) . . . . .	3140	3950	5970	8100	ohms
Max.-Signal Driving Power					
(Approx.) . . . . .	0.15	0.15	0.2	0.2	watt
Max.-Signal Power Output					
(Approx.) . . . . .	215	270	440	630	watts

**RF POWER AMPLIFIER — Class B Television Service**

Synchronizing-level conditions per  
tube unless otherwise specified

**Maximum CCS<sup>g</sup> Ratings, Absolute-Maximum Values:**

54 to 216 Mc

DC PLATE VOLTAGE . . . . .	1250	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . .	400	max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE . . . . .	-250	max.	volts
DC PLATE CURRENT (AVERAGE) <sup>k</sup> . . . . .	250	max.	ma



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GRID-No.2 INPUT . . . . .	12 max.	watts
GRID-No.1 INPUT . . . . .	2 max.	watts
PLATE DISSIPATION . . . . .	250 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode. . .	150 max.	volts
Heater positive with respect to cathode. . .	150 max.	volts

## Typical CCS Operation:

*With bandwidth of 5 Mc*

DC Plate Voltage. . . . .	750	1000	1250	volts
DC Grid-No.2 Voltage. . . . .	200	300	300	volts
DC Grid-No.1 Voltage. . . . .	-60	-65	-70	volts
Peak RF Grid-No.1 Voltage:				
Synchronizing level . . . . .	85	95	100	volts
Pedestal level. . . . .	65	70	75	volts
DC Plate Current:				
Synchronizing level . . . . .	335	330	305	ma
Pedestal level. . . . .	245	240	230	ma
DC Grid-No.2 Current:				
Synchronizing level . . . . .	50	45	45	ma
Pedestal level. . . . .	20	15	10	ma
DC Grid-No.1 Current:				
Synchronizing level . . . . .	15	20	25	ma
Pedestal level. . . . .	4	4	4	ma
Driver Power Output (Approx.):				
Synchronizing level . . . . .	7	8	9	watts
Pedestal level. . . . .	4.25	4.7	5.5	watts
Useful Power Output (Approx.):				
Synchronizing level . . . . .	135	200	250	watts
Pedestal level. . . . .	75	110	140	watts

## LINEAR RF POWER AMPLIFIER

### Single-Sideband Suppressed-Carrier Service

#### Maximum Ratings, Absolute-Maximum Values:

	Up to 150 Mc	Up to 500 Mc	
	CCS <sup>®</sup>	ICAS <sup>™</sup>	CCS <sup>®</sup>
DC PLATE VOLTAGE. . .	2000 max.	2250 max.	1250 max.      volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . .	400 max.	400 max.	400 max.      volts
MAX.-SIGNAL DC PLATE CURRENT . . .	250 max.	280 max.	250 max.      ma
GRID-No.2 INPUT . . .	12 max.	12 max.	12 max.      watts
PLATE DISSIPATION . . .	250 max.	250 max.	300 max.      watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode. . . .	150 max.	150 max.	150 max.      volts
Heater positive with respect to cathode. . . .	150 max.	150 max.	150 max.      volts

→ indicates a change.



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## Typical Class AB<sub>1</sub> "Single-Tone" Operation up to 150 Mc:<sup>n</sup>

	CCS <sup>g</sup>	ICAS <sup>m</sup>		
DC Plate Voltage . . . . .	1000	1500	1800	2000      volts
DC Grid-No.2 Voltage <sup>p</sup> . . . . .	300	300	300	300      volts
DC Grid-No.1 (Control-Grid) Voltage . . . . .	-50	-50	-50	-48      volts
Zero-Signal DC Plate Current . . . . .	50	50	50	60      ma
Zero-Signal DC Grid-No.2 Current . . . . .	0	0	0	0      ma
Effective RF Load Resistance . . . . .	1860	3280	4140	4270      ohms
Max.-Signal DC Plate Current . . . . .	225	225	225	250      ma
Max.-Signal DC Grid-No.2 Current . . . . .	11	11	11	9      ma
Max.-Signal Peak RF Grid-No.1 Voltage . . . . .	50	50	50	48      volts
Max.-Signal Driving Power (Approx.) . . . . .	0	0	0	0      watts
Max.-Signal Power Output (Approx.) . . . . .	115	200	250	290      watts

## Maximum Circuit Values (CCS or ICAS):

Grid-No.1-Circuit Resistance under Any Condition:

With fixed bias . . . . .      25000 max. ohms  
With cathode bias . . . . .      Not recommended

## PLATE-MODULATED RF POWER AMPLIFIER — Class C Telephony

*Carrier conditions per tube for use with a max. modulation factor of 1*

### Maximum CCS<sup>g</sup> Ratings, Absolute-Maximum Values:

	Up to 150 Mc	150 to 500 Mc
DC PLATE VOLTAGE . . . . .	1600 max.	1000 max.      volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . .	300 max.	300 max.      volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE . . . . .	-250 max.	-250 max.      volts
DC PLATE CURRENT . . . . .	200 max.	200 max.      ma
GRID-No.2 INPUT . . . . .	10 max.	10 max.      watts
GRID-No.1 INPUT . . . . .	2 max.	2 max.      watts
PLATE DISSIPATION . . . . .	165 max.	165 max.      watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode . . . . .	150 max.	150 max.      volts
Heater positive with respect to cathode . . . . .	150 max.	150 max.      volts

### Typical CCS Operation:

*Up to 150 Mc*

DC Plate Voltage . . . . .	1200	1600      volts
DC Grid-No.2 Voltage (Modulated approx. 55%) <sup>q</sup> . . . . .	250	250      volts

→ Indicates a change.



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DC Grid-No.1 Voltage	.....	-118	-118	volts
Peak AF Grid-No.2 Voltage (For 100% modulation)	.....	180	200	volts
Peak RF Grid-No.1 Voltage	.....	136	136	volts
DC Plate Current	.....	200	200	ma
DC Grid-No.2 Current	.....	23	23	ma
DC Grid-No.1 Current (Approx.)	.....	5	5	ma
Driving Power (Approx.)	.....	2	3	watts
Power Output (Approx.)	.....	150	230	watts

### At 165 Mc

DC Plate Voltage	.....	400	600	800	1000	volts
DC Grid-No.2 Voltage (Modulated approx. 55%)	.....	250	250	250	250	volts
DC Grid-No.1 Voltage	.....	-90	-95	-100	-105	volts
Peak AF Grid-No.2 Voltage (For 100% modulation)	.....	140	150	160	170	volts
Peak RF Grid-No.1 Voltage	.....	110	120	120	125	volts
DC Plate Current	.....	200	200	200	200	ma
DC Grid-No.2 Current	.....	40	35	25	20	ma
DC Grid-No.1 Current (Approx.)	.....	7	8	10	15	ma
Driving Power (Approx.)	.....	1	1	1.5	2	ma
Power Output (Approx.)	.....	55	80	100	140	watts

### Maximum Circuit Values:

Grid-No.1-Circuit Resistance under Any Condition	.....	25000	max.	ohms
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### RF POWER AMPLIFIER & OSCILLATOR — Class C Telegraphy<sup>8</sup> and

### RF POWER AMPLIFIER — Class C FM Telephony

### Maximum CCS<sup>9</sup> Ratings, Absolute-Maximum Values:

		Up to 150 Mc	150 to 500 Mc	
DC PLATE VOLTAGE	.....	2000	max.	1250 max. volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE	.....	300	max.	300 max. volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE	.....	-250	max.	-250 max. volts
DC PLATE CURRENT	.....	250	max.	250 max. ma
GRID-No.2 INPUT	.....	12	max.	12 max. watts
GRID-No.1 INPUT	.....	2	max.	2 max. watts
PLATE DISSIPATION	.....	250	max.	250 max. watts
PEAK HEATER-CATHODE VOLTAGE:				

Heater negative with respect to cathode	.....	150	max.	150 max. volts
Heater positive with respect to cathode	.....	150	max.	150 max. volts

### Typical CCS Operation:

#### Up to 150 Mc

DC Plate Voltage	.....	1500	2000	volts
DC Grid-No.2 Voltage	.....	250	250	volts



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DC Grid-No.1 Voltage. . . . .	-88	-88	volts
Peak RF Grid-No.1 Voltage . . . . .	110	110	volts
DC Plate Current. . . . .	250	250	ma
DC Grid-No.2 Current. . . . .	24	24	ma
DC Grid-No.1 Current (Approx.). . . . .	8	8	ma
Driving Power (Approx.) . . . . .	1.5	2.5	watts
Power Output (Approx.). . . . .	260	370	watts

*At 165 Mc*

DC Plate Voltage. . . . .	600	750	1000	1250	volts
DC Grid-No.2 Voltage. . . . .	250	250	250	250	volts
DC Grid-No.1 Voltage. . . . .	-75	-80	-80	-90	volts
Peak RF Grid-No.1 Voltage . . . . .	91	96	95	106	volts
DC Plate Current. . . . .	200	200	200	200	ma
DC Grid-No.2 Current. . . . .	37	37	31	20	ma
DC Grid-No.1 Current (Approx.). . . . .	11	11	10	11	ma
Driving Power (Approx.) . . . . .	1	1	1	1.2	watts
Power Output (Approx.). . . . .	85	110	150	195	watts

*At 500 Mc with coaxial cavity*

DC Plate Voltage. . . . .	600	800	1000	1250	volts
DC Grid-No.2 Voltage. . . . .	250	250	250	280	volts
DC Grid-No.1 Voltage. . . . .	-110	-110	-110	-115	volts
DC Plate Current. . . . .	170	200	200	200	ma
DC Grid-No.2 Current. . . . .	6	7	7	5	ma
DC Grid-No.1 Current (Approx.). . . . .	6	10	10	10	ma
Driver Power Output (Approx.). . . . .	15	20	25	30	watts
Useful Power Output (Approx.). . . . .	50	95	120	140	watts

**Maximum Circuit Values:**

Grid-No.1-Circuit Resistance  
under Any Condition . . . . . 25000 max. ohms

- a Because the cathode is subjected to considerable back bombardment as the frequency is increased with resultant increase in temperature, the heater voltage should be reduced depending on operating conditions and frequency to prevent overheating the cathode and resultant short life.
- b With cylindrical shield JEDEC No.320 surrounding radiator; and with a cylindrical shield JEDEC No.321 surrounding the grid-No.2 ring terminal. Both shields are connected to ground.
- c Available from E.F. Johnson Co., Waseca, Minn.
- d For use at lower frequencies.
- e For use at higher frequencies.
- f Subscript 1 indicates that grid-No.1 current does not flow during any part of the input cycle.
- g Continuous Commercial Service.
- h Averaged over any audio-frequency cycle of sine-wave form.
- j Subscript 2 indicates that grid-No.1 current flows during some part of the input cycle.
- k Averaged over any frame.
- l The driver stage is required to supply tube losses and rf-circuit losses. The driver stage should be designed to provide an excess of power above the indicated values to take care of variations in line voltage, in components, in initial tube characteristics, and in tube characteristics during life.
- m Intermittent Commercial and Amateur Service.
- n "Single-Tone" operation refers to that class of amplifier service in which the grid-No.2 input consists of a monofrequency rf signal having constant amplitude. This signal is produced in a single-sideband suppressed-carrier system when a single audio frequency of constant amplitude is applied to the input of the system.



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- P Preferably obtained from a fixed supply.
- Q The dc grid-No.2 voltage must be modulated approximately 55% in phase with the plate modulation in order to obtain 100% modulation of the 7034/4X150A. The use of a series grid-No.2 resistor or reactor may not give satisfactory performance and is therefore not recommended.
- R Obtained from grid-No.1 resistor or from a combination of grid-No.1 resistor with either fixed supply or cathode resistor.
- S Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

## CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN

	Note	Min.	Max.	
Heater Current . . . . .	1	2.3	2.9	amp
Direct Interelectrode Capacitances:				
Grid No.1 to plate. . . . .	2	-	0.05	$\mu\text{uf}$
Grid No.1 to cathode, grid No.2, and heater. . . . .	2	14.5	17.0	$\mu\text{uf}$
Plate to cathode, grid No.2, and heater. . . . .	2	4.0	4.8	$\mu\text{uf}$
Grid-No.1 Voltage . . . . .	1,3,4,5	-32	-46	volts
Grid-No.2 Current . . . . .	1,3,4,5	-5	3	ma
Power Output. . . . .	4,5,6	100	-	watts

Note 1: With 6.0 volts on heater.

Note 2: With cylindrical shield JEDEC No.320 surrounding radiator; and with a cylindrical shield JEDEC No.321 surrounding the grid-No.2 ring terminal. Both shields are connected to ground.

Note 3: With dc plate volts = 1000, dc grid-No.2 volts = 300, and grid-No.1 voltage adjusted to give plate current of 150 milliamperes.

Note 4: With forced-air cooling as specified under GENERAL DATA for *Air-System Socket*.

Note 5: Heater voltage must be applied for at least 30 seconds before application of other voltages.

Note 6: With heater volts = 5.5, dc plate volts = 1000, dc grid-No.2 volts = 250, dc grid-No.1 volts = -90, maximum dc grid-No.1 milliamperes = 20, grid-No.1 signal voltage adjusted to give dc plate current of 200 milliamperes, and a frequency of 475 Mc.

## SPECIAL PERFORMANCE DATA

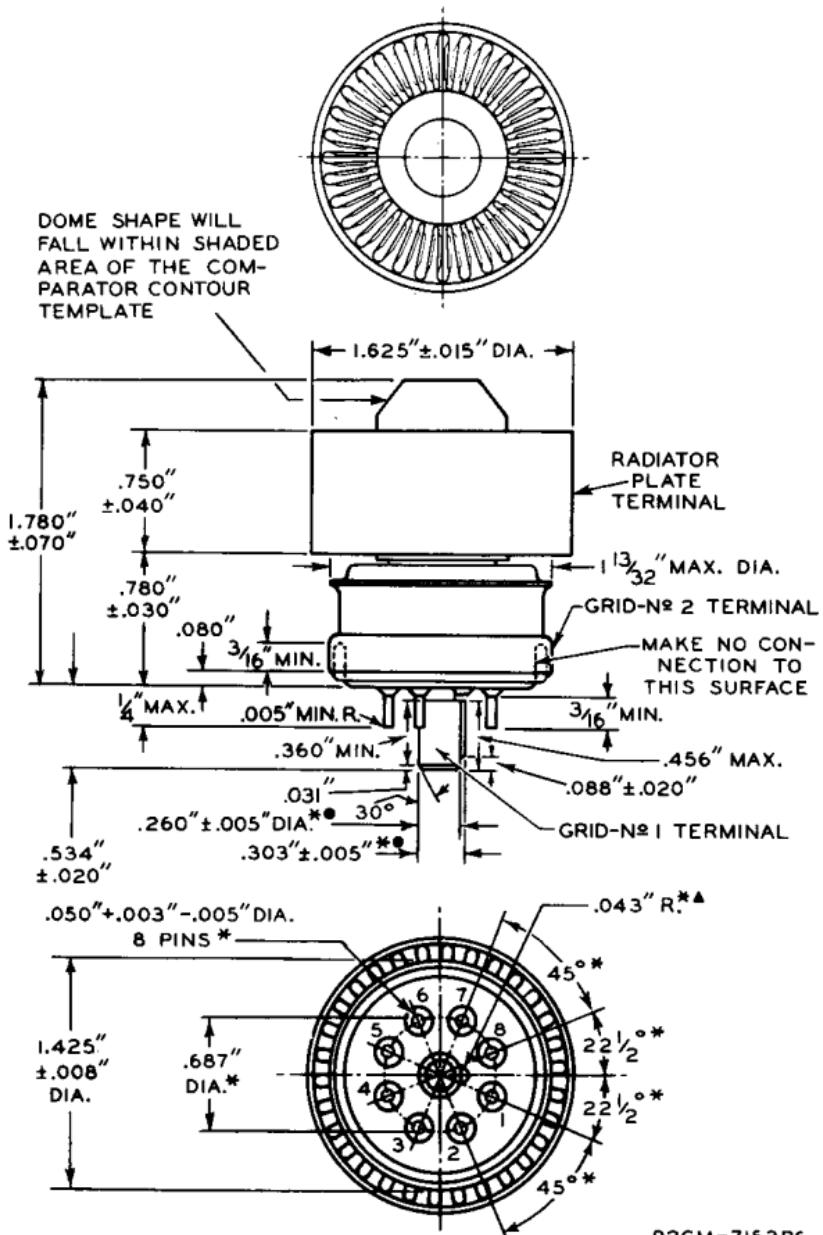
### Interelectrode Leakage:

This test is destructive and is performed on a sample lot of tubes from each production run under the following conditions: ac heater volts = 6.6, no voltage on other elements, and specified forced-air cooling for *Air-System Socket*. At the end of 500 hours, with tube at 25° C, and with no voltage applied to heater, the minimum resistance between indicated electrodes as measured with a 500-volt Megger-type ohmmeter having an internal impedance of 2.5 megohms, will be:

Grid No.1 and Grid No.2 . . . . .	10 min.	megohms
Grid No.1 and Cathode . . . . .	10 min.	megohms
Grid No.2 and Cathode . . . . .	10 min.	megohms

→ Indicates a change.





92CM-7153R6

GRID-No. I PLUG DIMENSIONS ARE MEASURED BY THE USE OF THE SERIES OF GAUGES SHOWN IN SKETCHES G<sub>1</sub> AND G<sub>2</sub>. IN THE FOLLOWING INSTRUCTIONS FOR THE USE OF THESE GAUGES, "GO" INDICATES THAT THE ENTIRE GRID-No. I PLUG KEY WILL ENTER THE GAUGE; AND "NO-GO" INDICATES THAT THE GRID-No. I PLUG KEY WILL NOT ENTER THE GAUGE MORE THAN 1/16". INSTRUCTIONS FOR THE USE OF THE GAUGES FOLLOW:

▲, ●, \*: See next page.



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▲ GAUGES G<sub>1</sub>-1, G<sub>1</sub>-2, G<sub>1</sub>-3, AND G<sub>1</sub>-4:

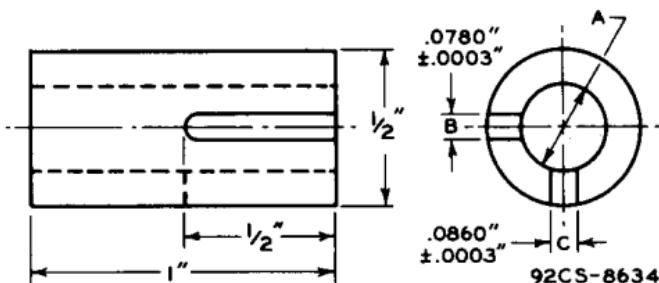
USING ONLY SLOT C, TRY THESE GAUGES IN NUMERICAL ORDER UNTIL ONE IS FOUND THAT WILL ACCEPT THE ENTIRE GRID-No.1 PLUG. USING THE FIRST GAUGE THUS FOUND, IT WILL NOT BE POSSIBLE TO INSERT THE GRID-No.1 PLUG IN SLOT B.

● GAUGES G<sub>2</sub>-1, G<sub>2</sub>-2, AND G<sub>2</sub>-3:

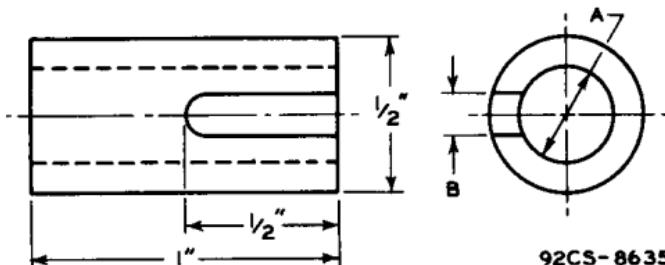
THE GRID-No.1 PLUG WILL BE REJECTED BY GAUGES G<sub>2</sub>-1 AND G<sub>2</sub>-2, BUT WILL BE ACCEPTED BY GAUGE G<sub>2</sub>-3.

\* BASE-PIN POSITIONS ARE HELD TO TOLERANCES SUCH THAT THE ENTIRE LENGTH OF THE PINS WILL, WITHOUT UNDUE FORCE, PASS INTO AND DISENGAGE FROM THE FLAT-PLATE GAUGE SHOWN IN SKETCH G<sub>3</sub>.

GAUGE SKETCH G<sub>1</sub>



Gauge	Dimension A
G <sub>1</sub> -1	.2575" + .0000" - .0005"
G <sub>1</sub> -2	.2600" + .0000" - .0005"
G <sub>1</sub> -3	.2625" + .0000" - .0005"
G <sub>1</sub> -4	.2650" + .0000" - .0005"

GAUGE SKETCH G<sub>2</sub>

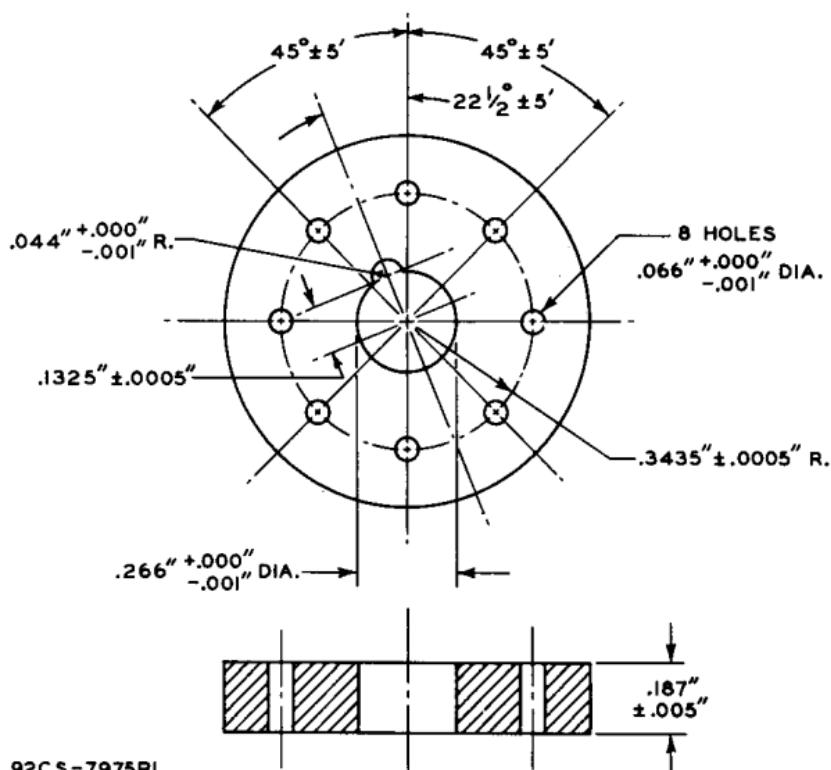
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Gauge	Dimension	
	A	B
G <sub>2</sub> -1	.2550" + .0000" - .0005"	.125"
G <sub>2</sub> -2	.2980" + .0000" - .0005"	none
G <sub>2</sub> -3	.3080" + .0000" - .0005"	none

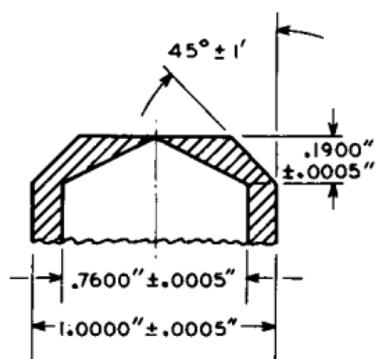


# 7034/4X150A

## GAUGE SKETCH G<sub>3</sub>



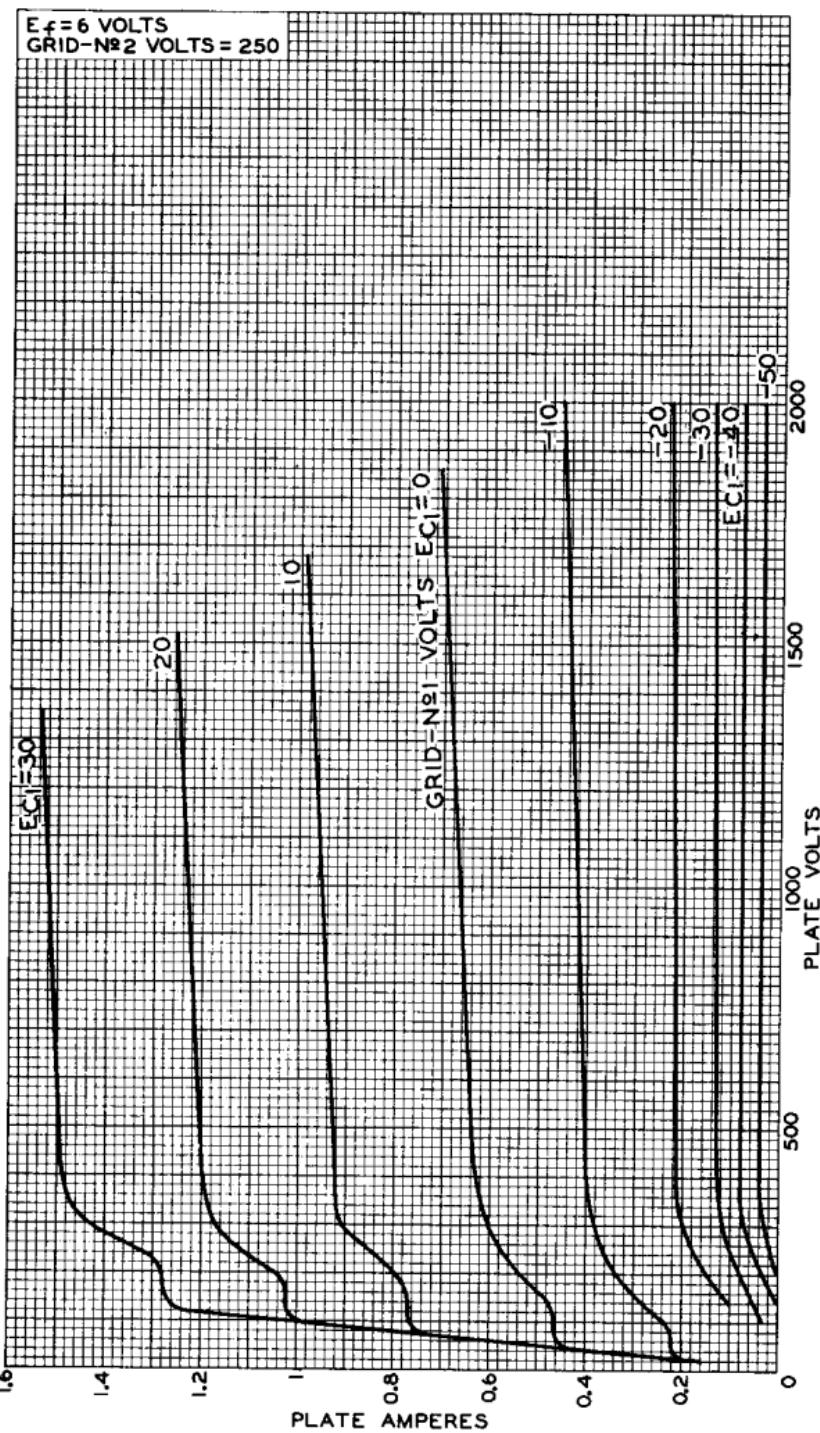
## COMPARATOR CONTOUR TEMPLATE



92CS-10554RI



## TYPICAL PLATE CHARACTERISTICS



92CM - 9755

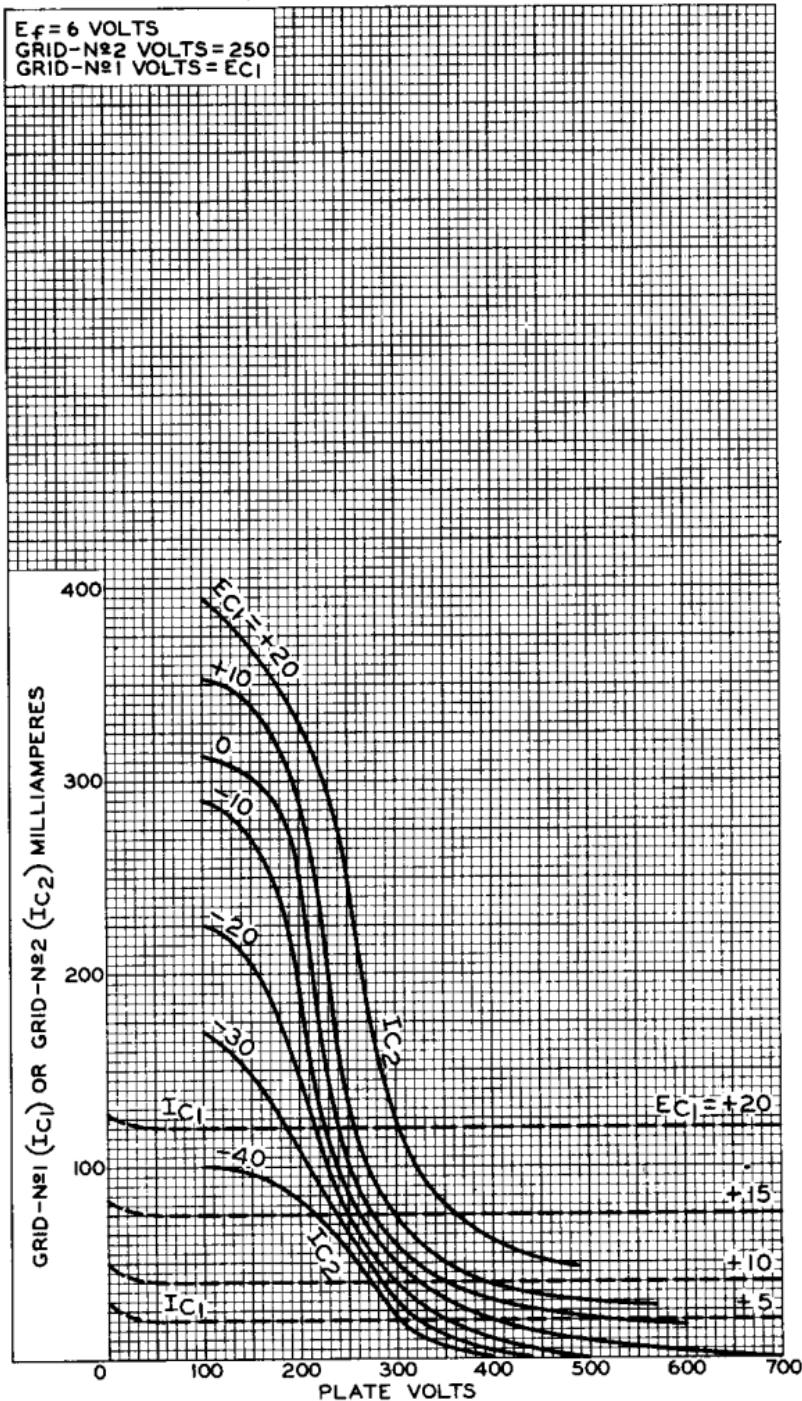


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DATA 7  
9-62

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## TYPICAL CHARACTERISTICS



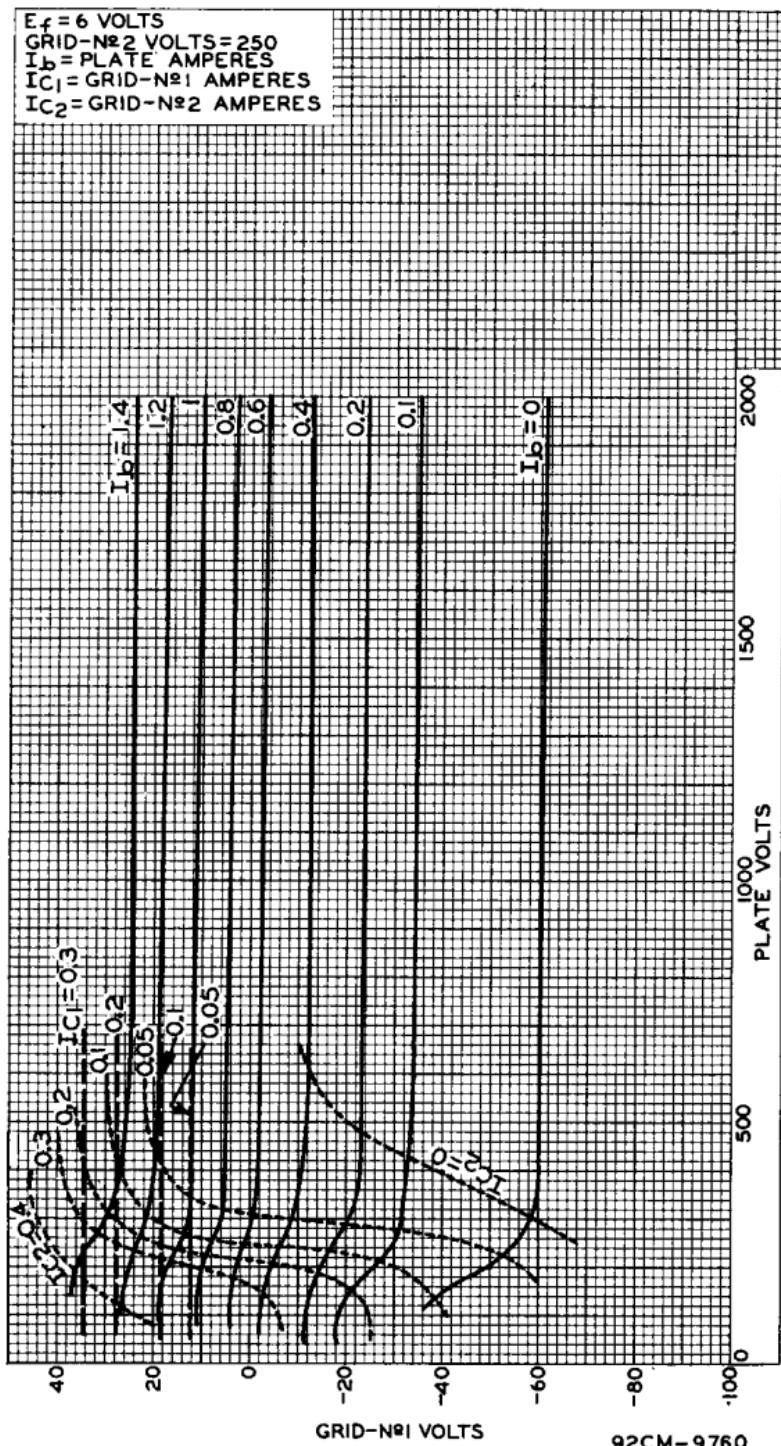
92CM-9756

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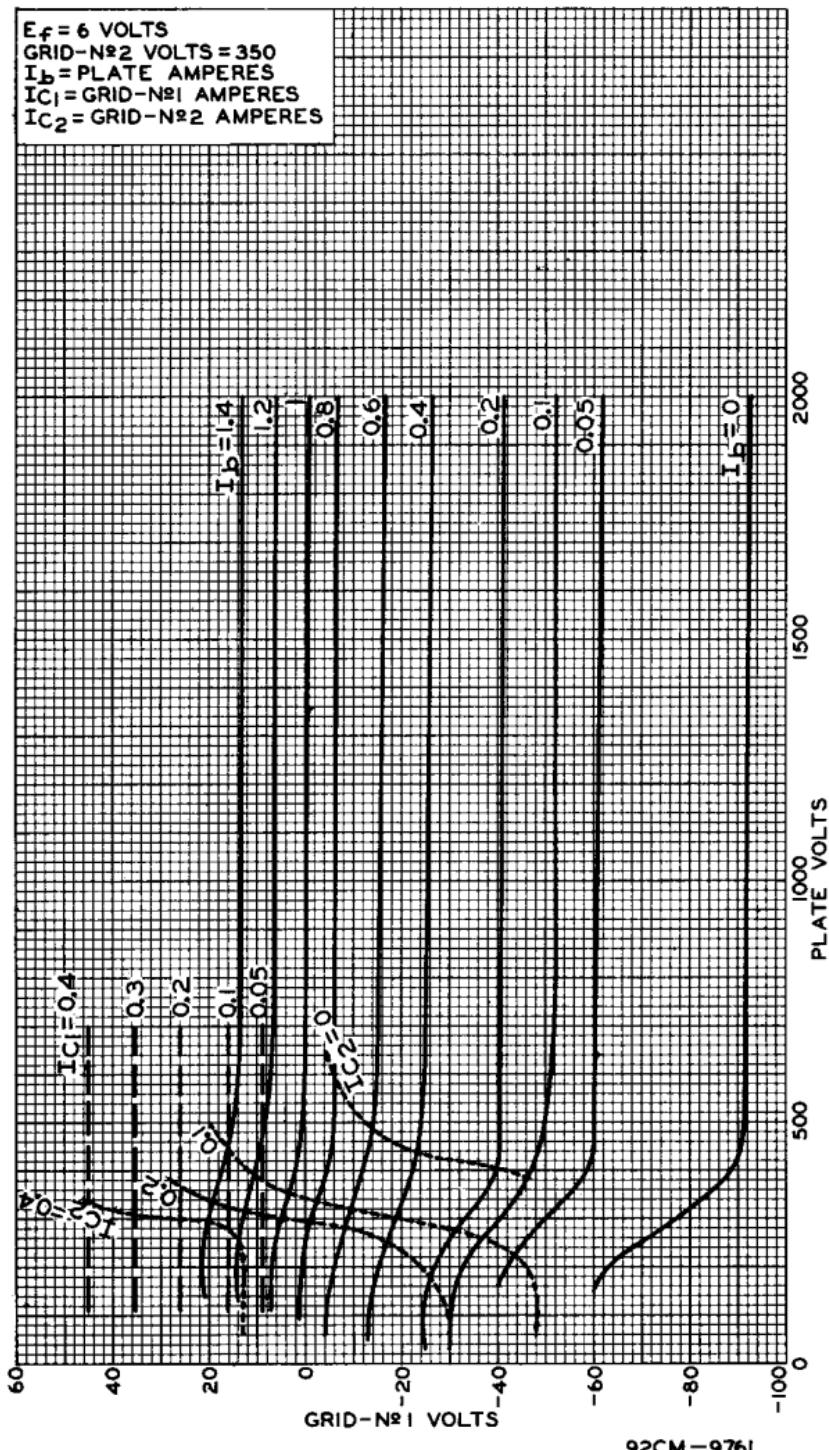
## TYPICAL CONSTANT-CURRENT CHARACTERISTICS

$E_f = 6$  VOLTS  
 GRID-N°2 VOLTS = 250  
 $I_b$  = PLATE AMPERES  
 $I_{C1}$  = GRID-N°1 AMPERES  
 $I_{C2}$  = GRID-N°2 AMPERES



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## TYPICAL CONSTANT-CURRENT CHARACTERISTICS



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