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SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	0.15	amp

Direct Interelectrode Capacitances:

	<i>Without External Shield</i>	<i>With External Shield^o</i>	
Grid No.1 to plate	0.0035 max.	0.0035 max.	μ f
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	5.4	5.4	μ f
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	4.4	4.4	μ f

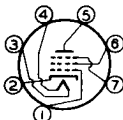
Characteristics, Class A₁ Amplifier:

Plate Voltage	100	250	volts
Grid No.3 (Suppressor)	<i>Connected to cathode at socket</i>		
Grid-No.2 Voltage	100	150	volts
Grid-No.1 Voltage	-1	-1	volt
Plate Resistance (Approx.)	0.7	1.4	megohm
Transconductance	3400	4600	μ mhos
Plate Current	3.6	7.4	ma
Grid-No.2 Current	1.4	2.9	ma
Grid-No.1 Voltage (Approx.) for plate current of 10 μ amp	-5	-7.7	volts

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" \pm 3-3/32"
Maximum Diameter	3/4"
Dimensional Outline	<i>See General Section</i>
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW	7CM

- Pin 1 - Grid No.1
- Pin 2 - Cathode
- Pin 3 - Heater
- Pin 4 - Heater
- Pin 5 - Plate



- Pin 6 - Grid No.2
- Pin 7 - Grid No.3,
Internal
Shield

^o with external shield JETEC No.316 connected to cathode.

← Indicates a change.

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AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max. volts
GRID-No.2 (SCREEN) SUPPLY VOLTAGE.	300 max. volts
→ GRID-No.2 VOLTAGE.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:	
Negative bias value.	50 max. volts
Positive bias value.	0 max. volts
PLATE DISSIPATION.	3 max. watts
→ GRID-No.2 INPUT:	
For grid-No.2 voltages up to 150 volts	0.5 max. watt
For grid-No.2 voltages between 150 and 300 volts.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode.	90 max. volts
Heater positive with respect to cathode.	90 max. volts

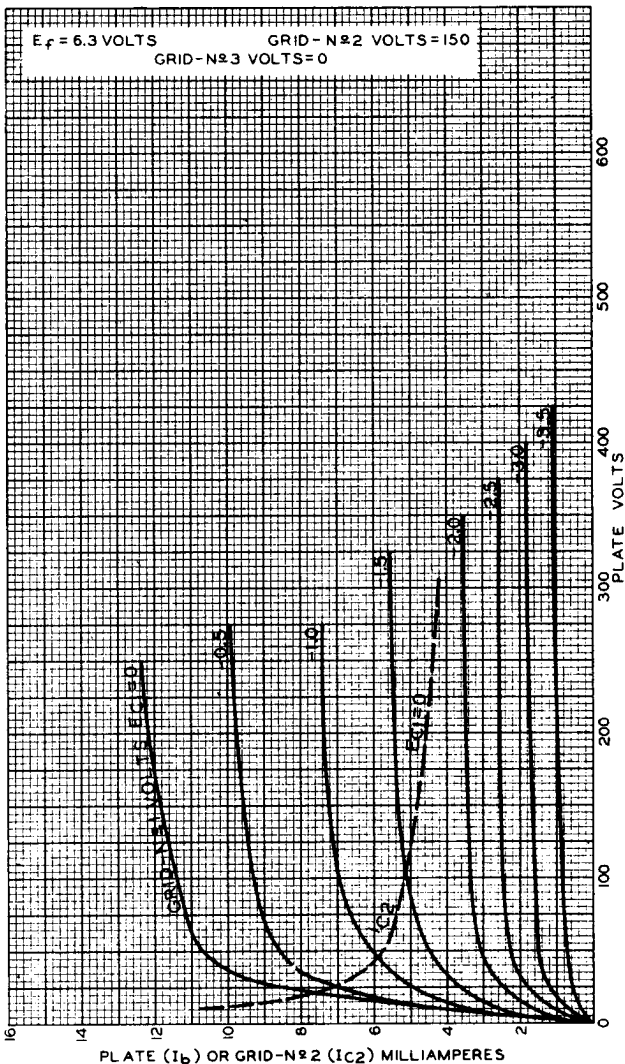
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AVERAGE PLATE CHARACTERISTICS



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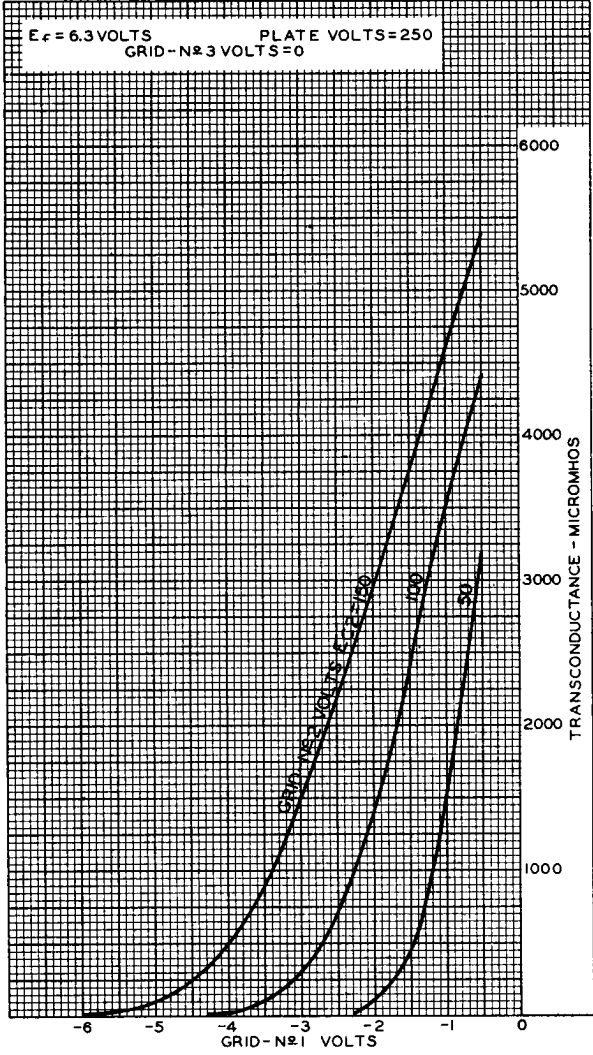
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AVERAGE CHARACTERISTICS



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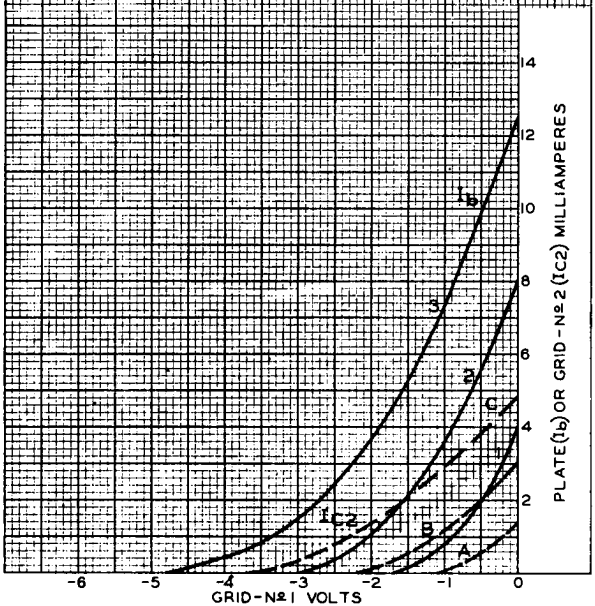
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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS PLATE VOLTS ≈ 250 GRID - N \circ 3 VOLTS = 0

CURVES		GRID - N \circ 2 VOLTS
I_b —	I_{c2} - -	
1	A	50
2	B	100
3	C	150



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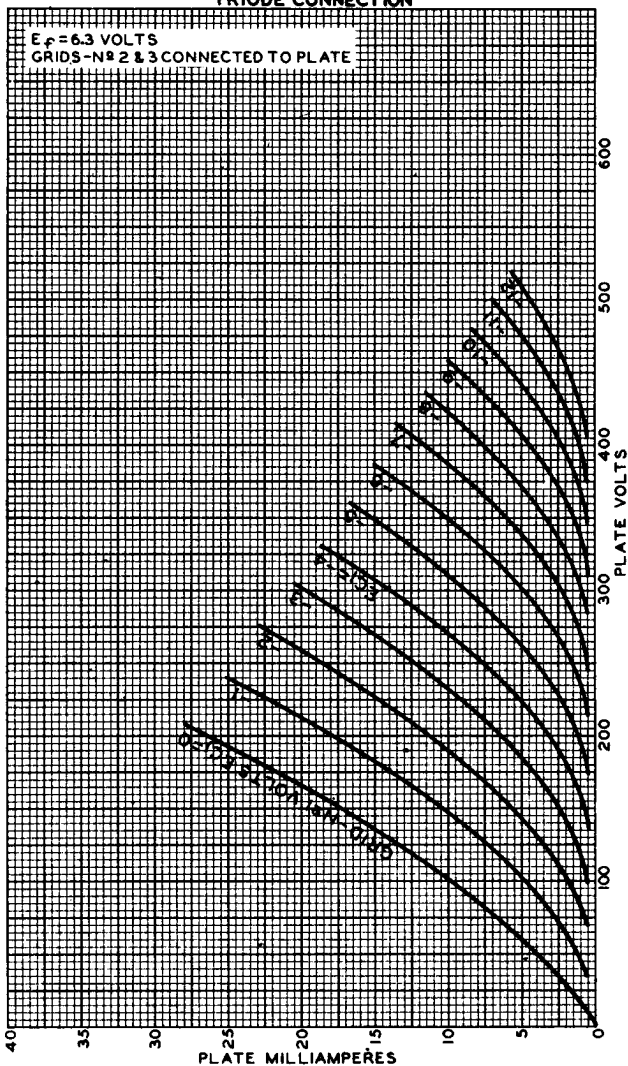
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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



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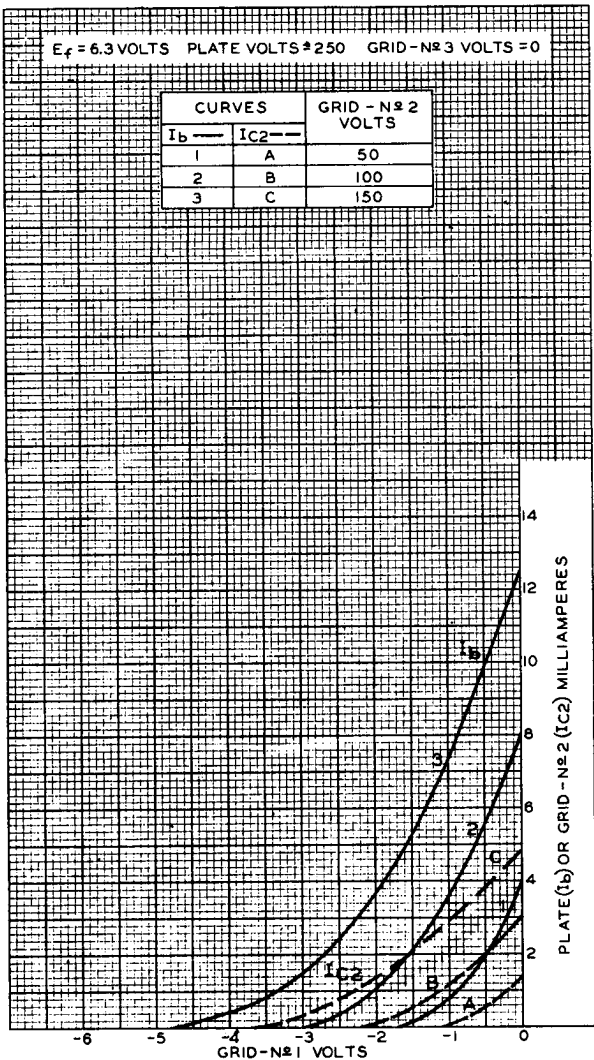
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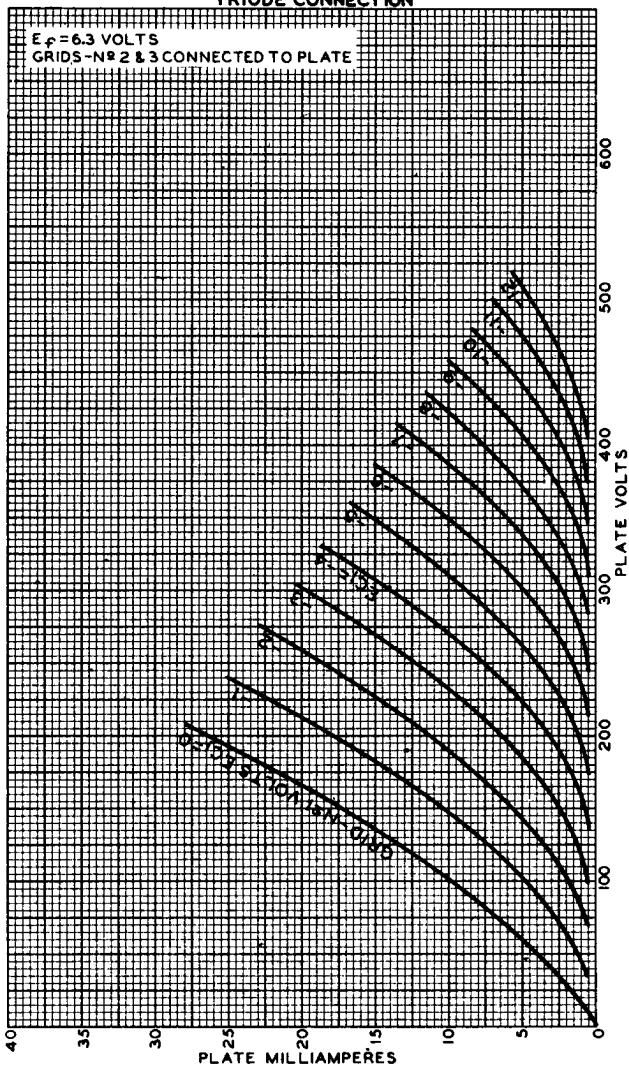


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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



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