



6SH7

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### H-F AMPLIFIER PENTODE

SINGLE-ENDED METAL TYPE WITH SHARP CUT-OFF

Heater	Coated Unipotential Cathode		
Voltage	6.3	a-c or d-c volts	
Current	0.3	amp.	
Direct Interelectrode Capacitances: <sup>o</sup>			
Grid to Plate	0.003 max.	μpf	
Input	8.5	μpf	
Output	7.0	μpf	
Maximum Overall Length	2-5/8"		
Maximum Seated Height	2-1/16"		
Maximum Diameter	1-5/16"		
Bulb	Metal Shell, MT-8		
Base	Small Wafer Octal, 8-Pin		
Pin 1 - Shell	Pin 5 - Cathode		
Pin 2 - Heater	Pin 6 - Screen		
Pin 3 - Cathode	Pin 7 - Heater		
Pin 4 - Grid	Pin 8 - Plate		
Mounting Position	BOTTOM VIEW (8BK)	Any	

*Maximum And Minimum Ratings Are Design-Center Values*

<u>AMPLIFIER</u>			
Plate Voltage		300 max.	volts
Screen Voltage		150 max.	volts
Screen Supply Voltage		300 max.	volts
Grid Voltage		0 min.	volts
Plate Dissipation		3 max.	watts
Screen Dissipation		0.7 max.	watt
<i>Typical Operation and Characteristics - Class A<sub>1</sub> Amplifier:</i>			
Plate Voltage	100	250	volts
Screen Voltage	100	150	volts
Grid Voltage	-1	-1	volts
Plate Resistance	0.35	0.9 approx.	megohm
Transconductance	4000	4900	μmhos
Grid Bias for			
Plate Current = 10 μamp.	-4	-5.5	volts
Plate Current	5.3	10.8	ma.
Screen Current	2.1	4.1	ma.

NOTE: This type is not recommended for high-gain audio amplifier applications because undesirable hum may be encountered.

- In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
- ° with shell connected to cathode.

← Indicates a change.

June 1, 1942

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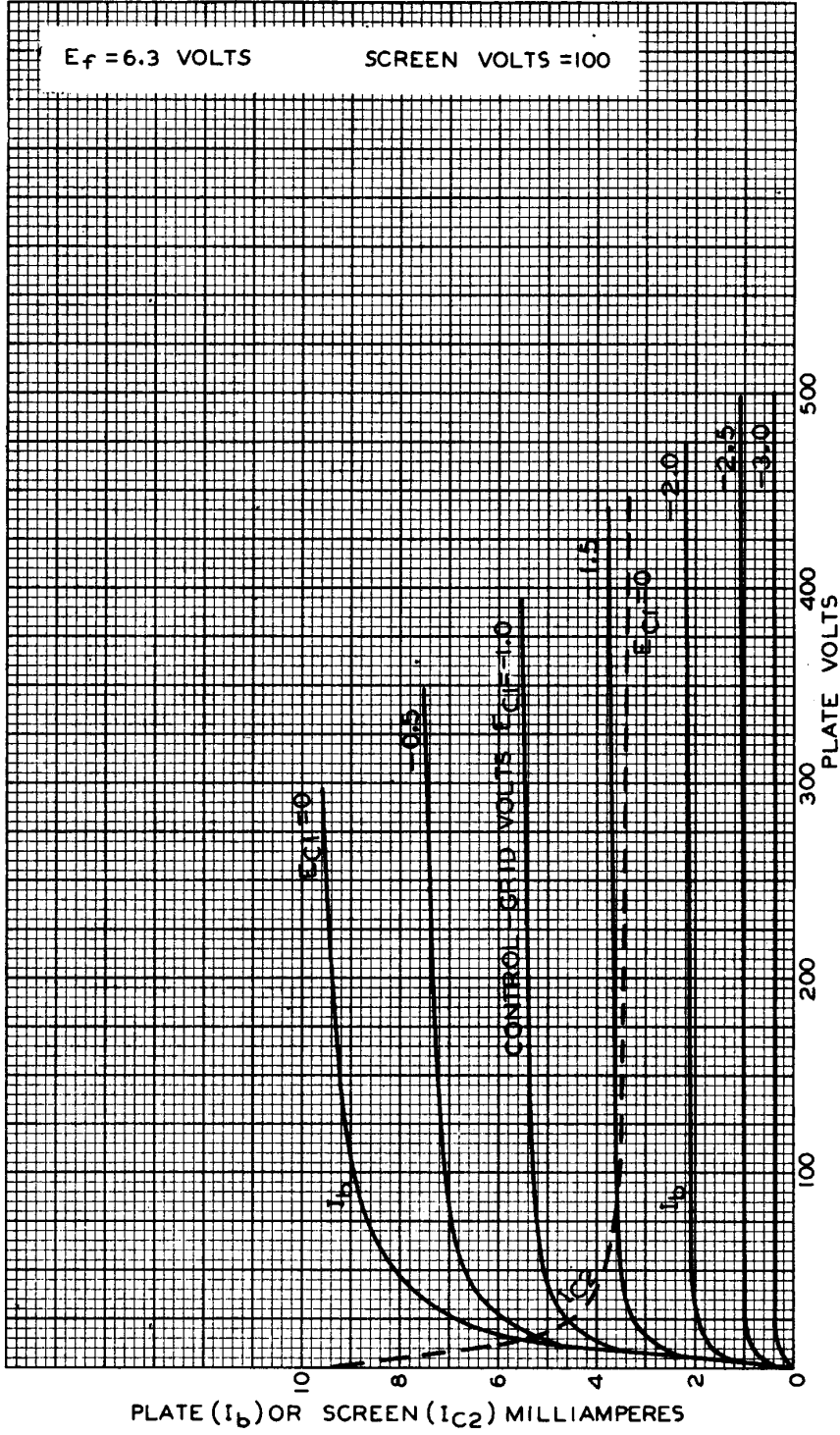
TENTATIVE DATA

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### AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION



JULY 24, 1941

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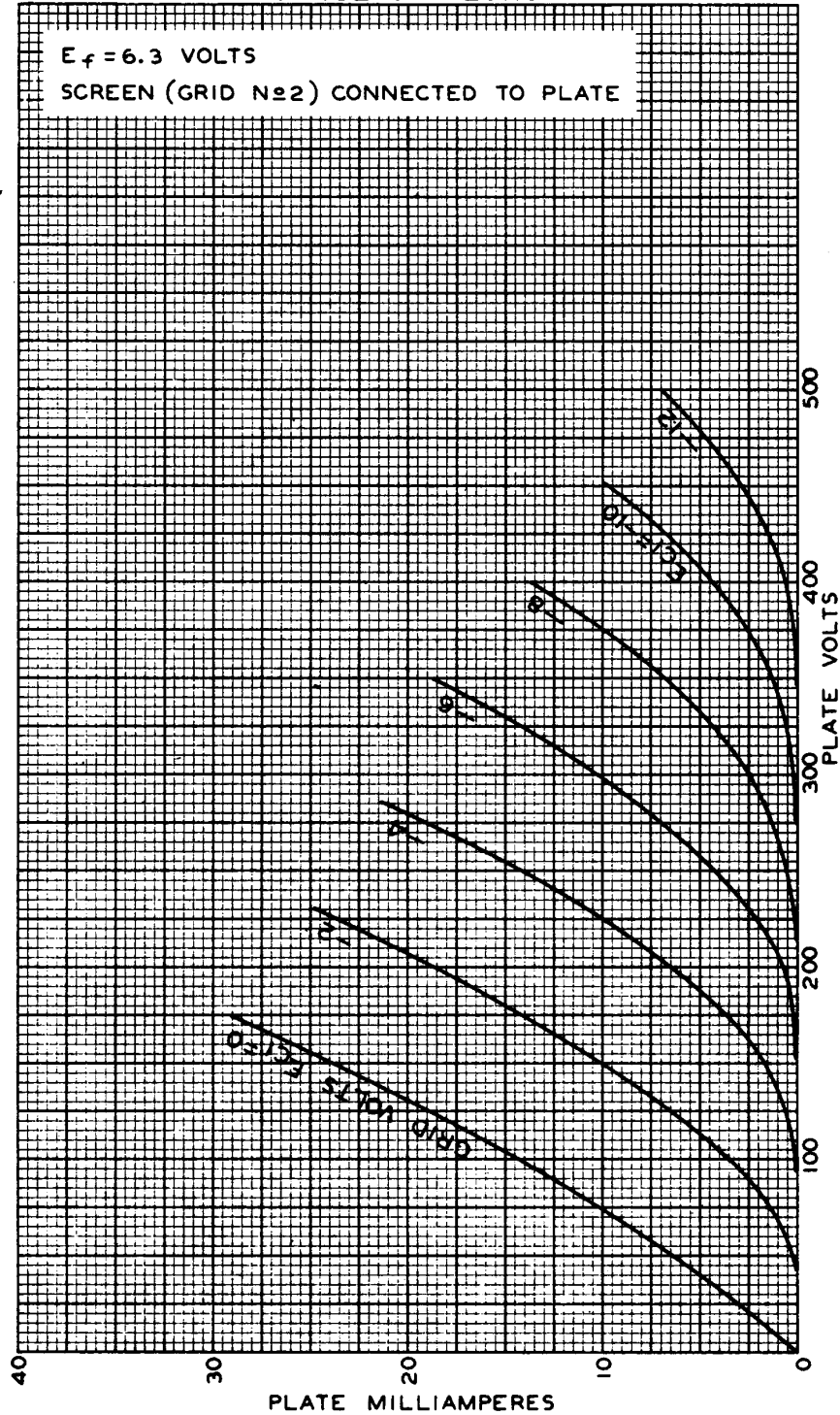
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### AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION

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MAY 11, 1942

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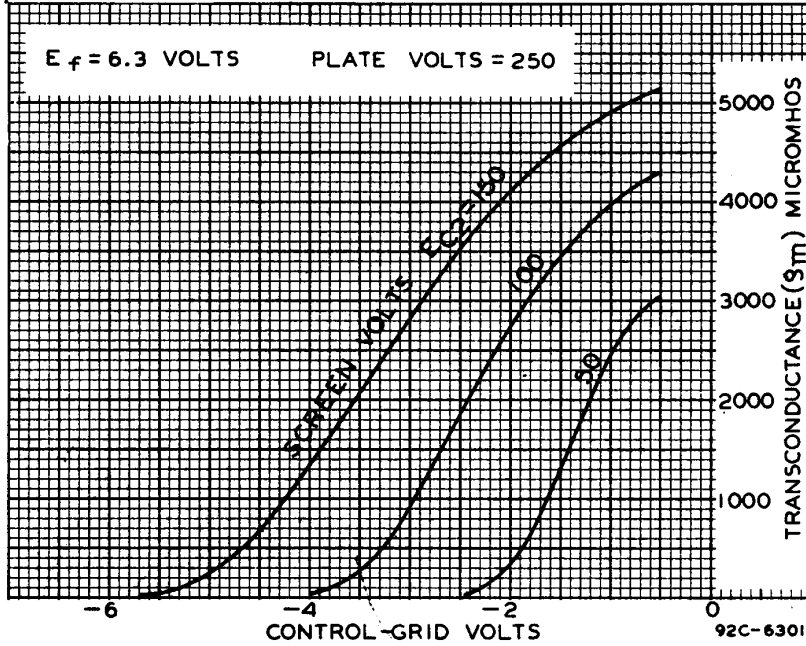
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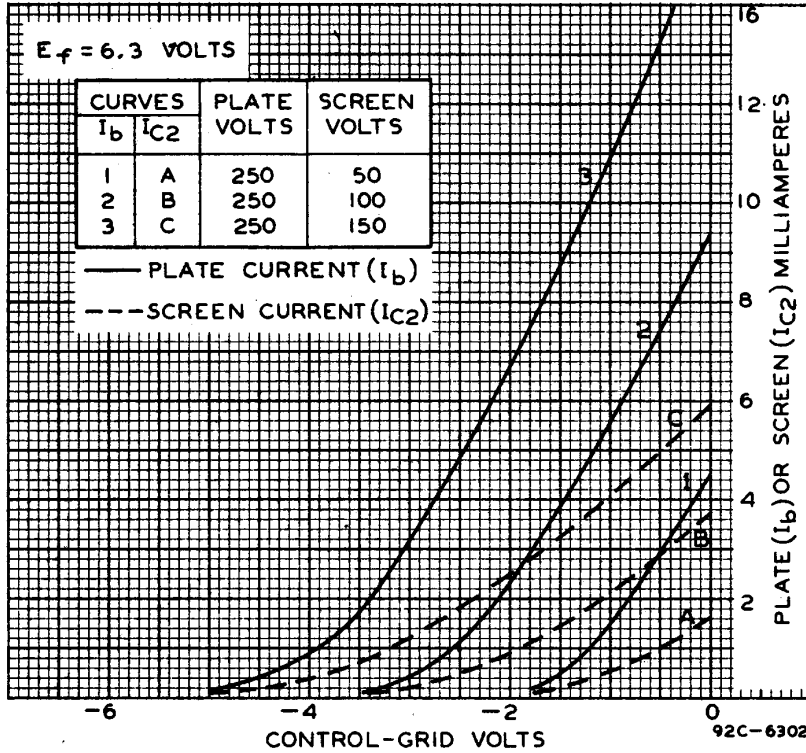


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AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS



MAY 14, 1942

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