



6AG5

R-F AMPLIFIER PENTODE MINIATURE TYPE

6AG5

Heater	Coated Unipotential Cathode	
Voltage	6.3	a-c or d-c volts
Current	0.3	amp.
Direct Interelectrode Capacitances (Approx.): ^o		
Grid to Plate	0.025 max.	μmf
Input	6.5	μmf
Output	1.8	μmf
Maximum Overall Length		2-1/8"
Maximum Seated Height		1-7/8"
Length from Base Seat to Bulb Top (excluding tip)		1-1/2" $\pm$ 3/32"
Maximum Diameter		3/4"
Bulb		T-5-1/2
Base ^A	Miniature Button 7-Pin	
Pin 1 - Grid	Pin 5 - Plate	
Pin 2 - Cathode, Internal Shield, Grid No.3	Pin 6 - Screen	
Pin 3 - Heater	Pin 7 - Cathode, Internal Shield, Grid No.3	
Pin 4 - Heater		
RCA Socket		Stock No.9914
Mounting Position		Any



BOTTOM VIEW (7BD)

Maximum Ratings Are Design-Center Values

AMPLIFIER (Pentode Connection)

Plate Voltage	300 max. volts
Screen Voltage	150 max. volts
Plate Dissipation	2 max. watts
Screen Dissipation	0.5 max. watt
D-C Heater-Cathode Potential	100 max. volts

Typical Operation and Characteristics - Class A₁ Amplifier:

Plate	100	125	250	volts
Screen	100	125	150	volts
Cathode-Bias Resistor	100	100	200	ohms
Plate Res. (Approx.)	0.3	0.5	0.8	megohm
Transcond.	4750	5100	5000	μmhos
Grid Bias for Plate				
Current = 10 $\mu\text{amp.}$	-5	-6	-8	volts
Plate Cur.	5.5	7.2	7	ma.
Screen Cur.	1.6	2.1	2	ma.

AMPLIFIER (Triode Connection)*

Plate Voltage	300 max. volts
Plate and Screen Dissipation (Total)	2.5 max. watts
D-C Heater-Cathode Potential	100 max. volts

Typical Operation and Characteristics - Class A₁ Amplifier:

Plate	180	250	volts
Cathode-Bias Resistor	350	825	ohms
Plate Res.	7900	11000	ohms
Amp. Factor	45	42	
Transcond.	5700	3800	μmhos
Plate Cur.	7.0	5.5	ma.

o, *, ^A: See next page.

← Indicates a change.

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- ° With no external shield.
- * Screen tied to plate.

NOTE: The 6AG5 may be used as an r-f amplifier at frequencies up to about 400 megacycles.

▲ The center hole in sockets designed for this base provides for the possibility that this tube type may be manufactured with the exhaust-tube tip at the base end. For this reason, it is recommended that in equipment employing this tube type, no material be permitted to obstruct the socket hole.

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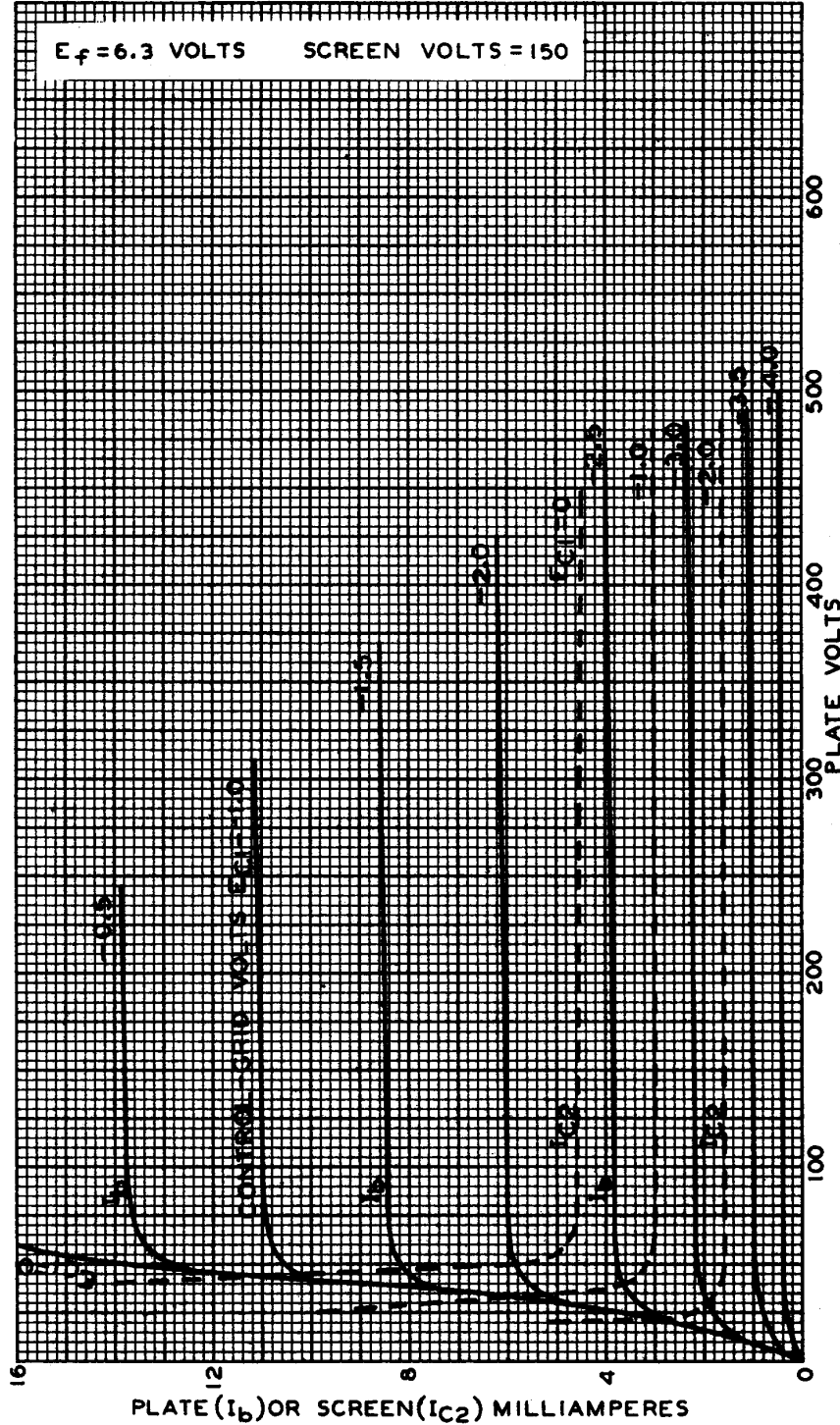
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AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

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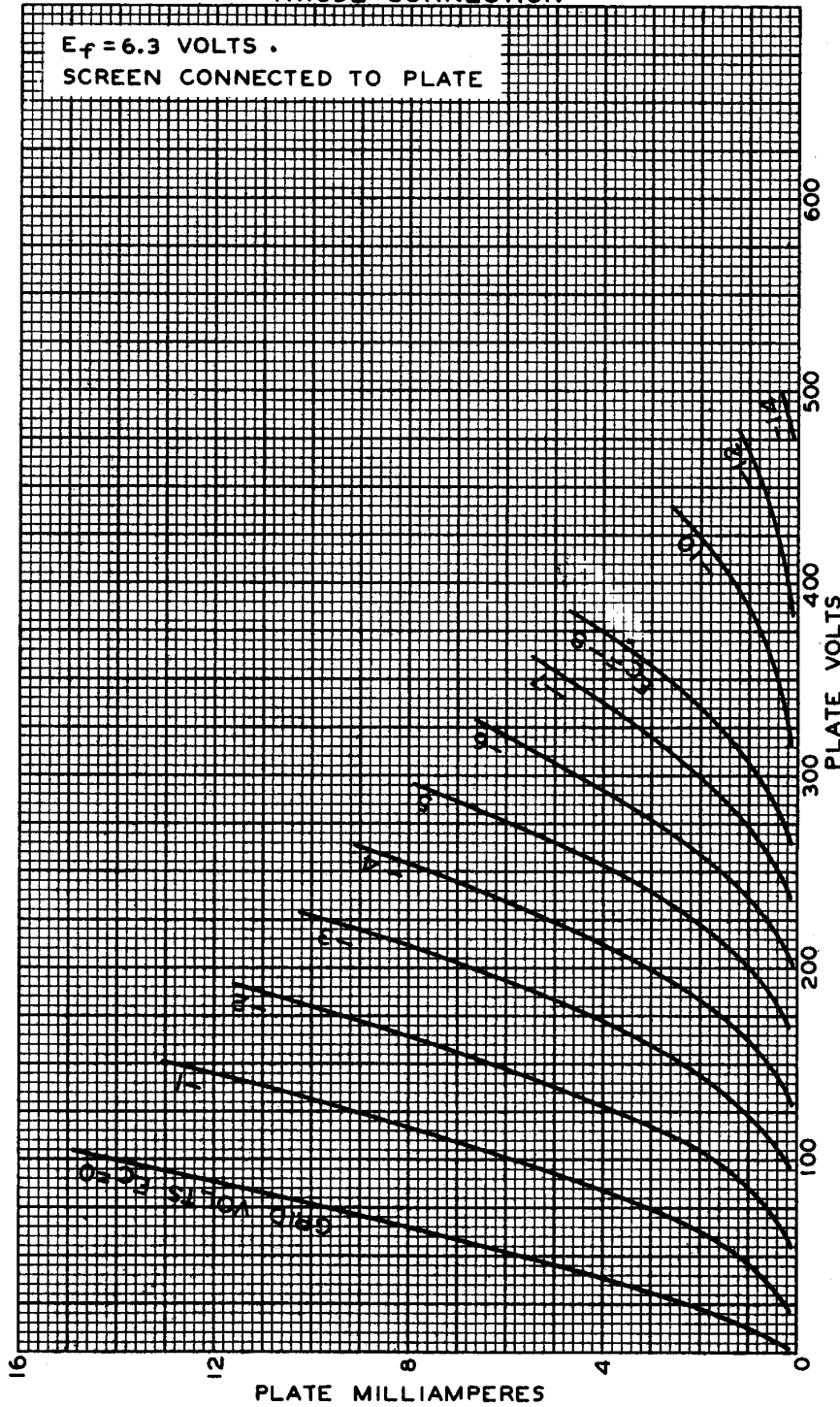
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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



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