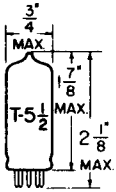
TUNG-SOL

PENTODE

MINIATURE TYPE

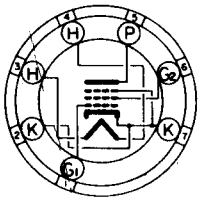


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 300 MA.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE
I8D

THE 6AG5 IS A MINIATURE TYPE RF PENTODE HAVING A SHARP CUT-OFF CHARACTERISTIC AND A HIGH VALUE OF TRANSCONDUCTANCE. IN COMPACT, LIGHT-WEIGHT EQUIPMENT IT IS USEFUL AS AN RF AMPLIFIER UP TO ABOUT 400 MEGACYCLES, AND AS A HIGH-FREQUENCY, INTERMEDIATE AMPLIFIER. IT HAS LOW INPUT CAPACITANCE AND LOW OUTPUT CAPACITANCE.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD[A]	WITHOUT SHIELD	
PENTODE CONNECTION			
GRID #1 TO PLATE: (G_1 TO P) MAX.	0.02	0.03	μμf
INPUT: G_1 TO (H+K+G_2+G_3&IS)	6.6	6.5	μμf
OUTPUT: P TO (H+K+G_2+G_3&IS)	3.1	1.8	μμf
TRIODE CONNECTION (G_2 TIED TO PLATE)			
GRID TO PLATE: G TO (P+G_2)	2.5	2.5	μμf
INPUT: G TO (H+K+G_3&IS)	3.6	3.6	μμf
OUTPUT: P+G_2 (H+K+G_3&IS)	4.3	3	μμf

[A] EXTERNAL SHIELD #316 CONNECTED TO PIN #7.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

	TRIODE CONNECTION[B]	PENTODE CONNECTION	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	300	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	PLATE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	PLATE		SEE J5-C4
MAXIMUM PLATE DISSIPATION	2.5	2	WATTS
MAXIMUM GRID #2 DISSIPATION	---	0.5	WATT
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	0	VOLTS

[B] TRIODE CONNECTION – GRID #2 CONNECTED TO PLATE.

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PLATE
2950
JUNE 1
1952

CONTINUED ON FOLLOWING PAGE

→INDICATES A CHANGE OR ADDITION.

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER – PENTODE CONNECTION

HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	300	300	300	MA.
PLATE VOLTAGE	100	125	250	VOLTS
GRID #2 VOLTAGE	100	125	150	VOLTS
CATHODE RESISTOR	180	100	180	OHMS
TRANSCONDUCTANCE	4 500	5 100	5 000	µMHOS
PLATE CURRENT	4.5	7.2	6.5	MA.
GRID #2 CURRENT	1.4	2.1	2	MA.
PLATE RESISTANCE (APPROX.)	0.6	0.5	0.8	MEGOHM
GRID #1 VOLTAGE FOR i_b = 10 µA. (APPROX.)	-5	-6	-8	VOLTS

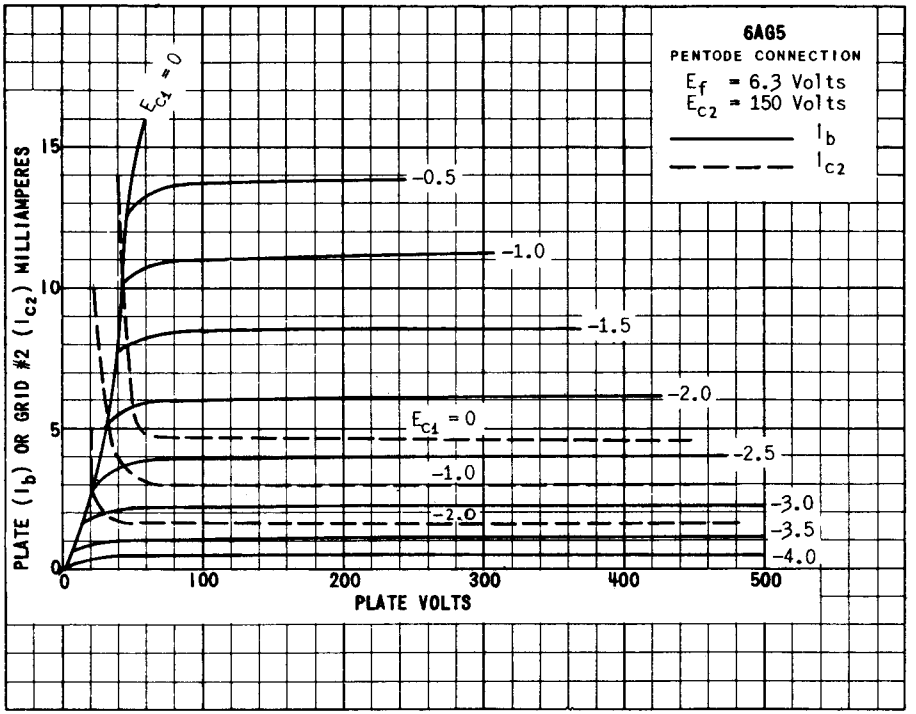
CLASS A_1 AMPLIFIER – TRIODE CONNECTION[C]

HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	300	300	MA.
PLATE VOLTAGE	250	180	VOLTS
GRID #2 VOLTAGE	PLATE	PLATE	
CATHODE RESISTOR	820	330	OHMS
TRANSCONDUCTANCE	3 800	5 700	µMHOS
PLATE CURRENT	5.5	7	MA.
PLATE RESISTANCE (APPROX.)	0.01	0.008	MEGOHM
AMPLIFICATION FACTOR	42	45	

[C] GRID #2 TIED TO PLATE.

PLATE 2951
JUNE 1 1952

→ INDICATES A CHANGE OR ADDITION.



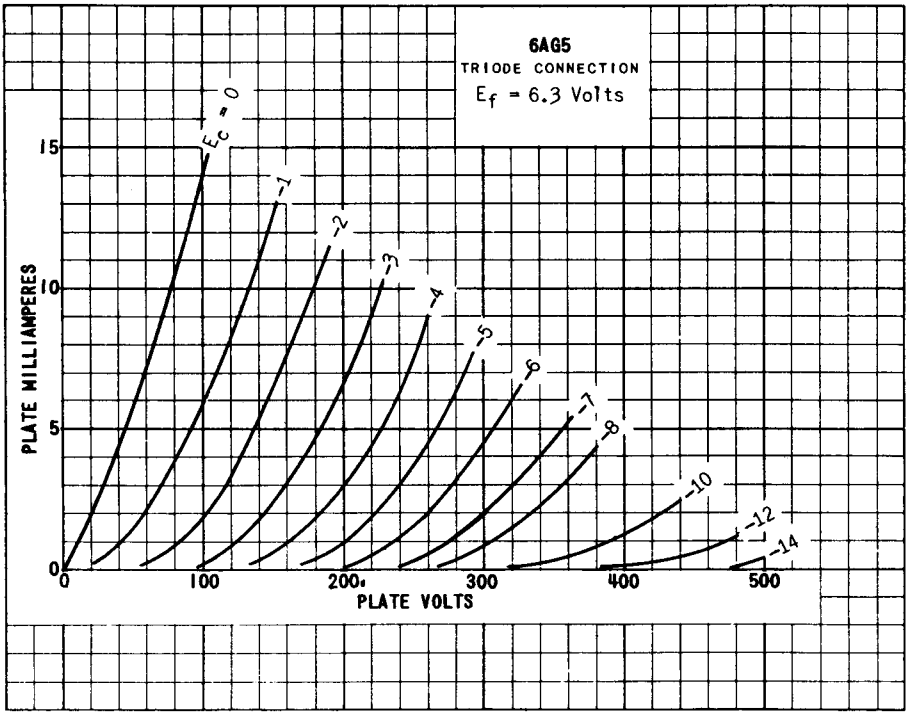


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PLATE
2952
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