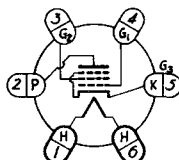


PENTODE
POWER AMPLIFIER
Heater Type Glass Bulb

The 2A5 is a pentode type power amplifier tube designed for service in the output stage of a-c. operated receivers.

RATINGS

Heater Voltage (a-c or d-c)	2.5 volts
Heater Current	1.75 amp
Maximum Plate Voltage	315 volts
Maximum Screen Voltage	315 volts



BOTTOM VIEW OF SOCKET

AMPLIFIER - CLASS A

	Pentode Connection		Triode Connection†	
Plate Voltage	250	315	250 max.	volts
Screen Voltage	250	315		volts
Grid Bias	-16.5	-22	-20	volts
Amplification Factor	200‡	200‡	7	
Plate Resistance	80000‡	75000‡	2600	ohms
Transconductance	2500	2650	2700	μmhos
Plate Current	34	42	31	ma
Screen Current	6.5	8		ma
Load Resistance	7000	7000	4000	ohms
Total Harmonic Dist.	7	7	5	percent
Power Output	3	5	0.65	watts

AMPLIFIER - CLASS AB - TWO TUBES

	Pentode Connection		Triode Connection†	
	Fixed-Bias	Self-Bias	Fixed-Bias	Self-Bias
Plate Voltage	375 max.	375 max.	350 max.	350 max.
Screen Voltage	250 max.	250 max.		
Grid Bias	-26 min.		-38	
Self-Bias Resistor		340		730 min.
Signal Pk.Volt. (G to G)	32	94	123	132
No-Signal Plate Current	34	54	45	50
No-Signal Screen Current	5	8		
Load Resistance (P to P)	10000	10000	6000	10000
Total Harmonic Dist.	5	5	7	7
Power Output (approx.)#	19*	19Δ	18**	14¶

#With one 2A5 triode connected as driver operated at plate voltage of 250 volts, grid bias of -20 volts and plate load of approximately 10000 ohms.

*Input transformer ratio, primary to 1/2 secondary = 3.32

ΔInput transformer ratio, primary to 1/2 secondary = 2.5

**Input transformer ratio, primary to 1/2 secondary = 1.67

¶Input transformer ratio, primary to 1/2 secondary = 1.29

†Screen connected to plate

‡Approximate

For characteristic curves refer to the types 6F6G and 42. The characteristics of the 2A5 are the same as those of the 6F6G and the 42 except for the heater rating.