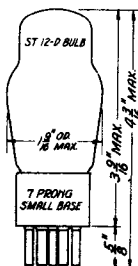
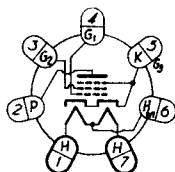


PENTODE
POWER AMPLIFIER
Heater Type Glass Bulb



The 12A5 is a pentode type power amplifier tube having two heaters which may be connected in series for a heater voltage of 12.6 volts, or connected in parallel for a heater voltage of 6.3 volts.



BOTTOM VIEW OF SOCKET

RATINGS

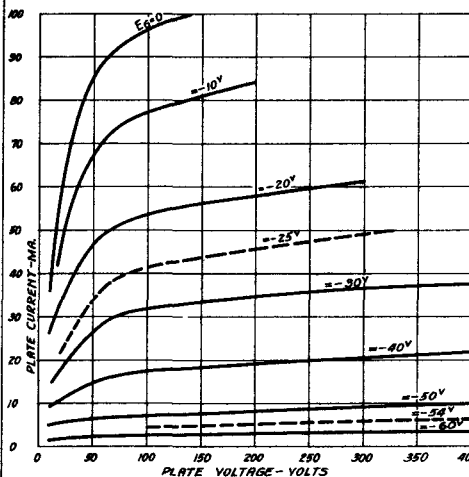
	Series Connection	Parallel Connection	
Heater Voltage (a-c or d-c)	12.6	6.3	volts
Heater Current	0.3	0.6	amp
Maximum Plate Voltage		180	volts
Maximum Screen Voltage		180	volts

AMPLIFIER - CLASS A

Plate Voltage	100	180	volts
Screen Voltage	100	180	volts
Grid Bias	-15	-25	volts
Amplification Factor	70	85	
Plate Resistance	41000	36000	ohms
Transconductance	1700	2400	μmhos
No-Signal Plate Current	17	45	ma
No-Signal Screen Current	3	8	ma
Load Resistance	4500	3300	ohms
Second Harmonic	2.5	6.5	percent
Third Harmonic	9	8	percent
Power Output	0.7	3.4	watts

AVERAGE PLATE CHARACTERISTICS

12A5

 $E_f = 12.6\text{V OR } 6.3\text{V}$
 $E_{s6} = 180\text{V}$
AVERAGE CHARACTERISTICS
AMPLIFIER-CLASS A
 $E_f = 6.3\text{V OR } 12.6\text{V}$ $E_p = 180\text{V}$ $E_{s6} = 180\text{V}$
 $E_g = -25\text{V}$ $E_{s5} = 17.7\text{V RMS}$
