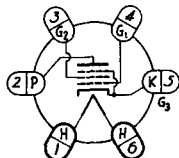
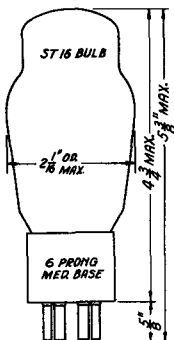


PENTODE
POWER AMPLIFIER
Heater Type Glass Bulb



BOTTOM VIEW OF SOCKET



The 48 is a pentode type power amplifier tube designed for service in the output stage of d-c receivers.

RATINGS

Heater Voltage (a-c or d-c)	30	volts
Heater Current	0.4	amp
Maximum Plate Voltage	125	volts
Maximum Screen Voltage	100	volts

AMPLIFIER - CLASS A

	Pentode Connection		Triode Connection†		
Plate Voltage	96	125	80	125	volts
Screen Voltage	96	100			volts
Grid Bias‡	-19	-20	-20	-32.5	volts
Amplification Factor	Subject to Considerable Variation		2.5	2.5	
Plate Resistance			760	675	ohms
Transconductance	3800	3900	3300	3700	umhos
Plate Current	52	56	31	52	ma
Screen Current	9	9.5			ma
Load Resistance	1500	1500			ohms
Total Harmonic Dist.	9	9			percent
Power Output	2	2.5			watts

AMPLIFIER - CLASS A - PUSH-PULL - TWO TUBES

	Pentode Connection	Triode Connection†	
Plate Voltage	125	125	volts
Screen Voltage	100		volts
Grid Bias	-20	-32.5	volts
No-Signal Plate Current (per tube)	56	52	ma
Load Resistance (plate to plate)	3000	1250	ohms
Total Harmonic Distortion	9	2	percent
Power Output	5	2.1	watts

The voltage between heater and cathode should not exceed 90 volts where they are not directly connected.

‡The d-c resistance in the grid circuit should not exceed 10000 ohms.

†Screen Grid connected to plate

