

GENERAL CHARACTERISTICS

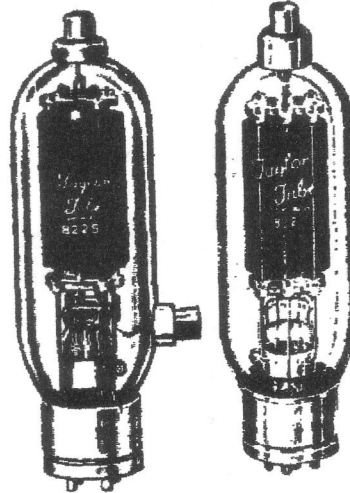
Filament Volts	10
Filament Current, amps.....	4
Amplification Factor	30
Plate Dissipation, watts.....	200

Interelectrode Capacities

Grid-Plate, mmf.....	13.5
Grid-Filament, mmf.....	8.5
Plate-Filament, mmf.....	2.1

Overall Dimensions

Maximum Length, inches.....	9
Maximum Diameter, inches.....	2 3/4
Standard 50 Watt Base	Nonex Glass



822 - 822S

\$18.50 \$21.50

GENERAL PURPOSE TRIODE 200 WATTS PLATE DISSIPATION

The 822 and 822S are unusually efficient and rugged Tubes especially designed for peak performance in all R F services, 822 up to 20 mc; 822S up to 30 mc; and in Class B Audio. These tubes are widely used in Induction Heating and Diathermy apparatus where long-life under abusive conditions demands a tube that "can take it." The 822S is exactly the same as the 822 except that the grid lead comes out through the side of the bulb, thus affording increased safety of operation on higher frequencies.

CLASS B AUDIO DATA

The chart below gives the max. average value as would be indicated on the plate current meter with sine wave input. For the same peak output with voice input the max. average plate current reading will be approximately 50 to 60 per cent of this value.

Supply Voltage ↓	400	500	750	1000	Audio Watts Output
3000		32000 230 ma. 2.8	21500 340 ma. 4.6	16000 500 ma. 8.0	←Plate to Plate load ←Max. Av. Ip. ←Watts drive
2500		22000 280 ma. 3.5	14500 410 ma. 6.0	10500 560 ma. 8.5	←Plate to Plate load ←Max. Av. Ip. ←Watts drive
2000	16800 285 ma. 3.25	13000 360 ma. 4.8	8800 525 ma. 7.4		←Plate to Plate load ←Max. Av. Ip. ←Watts drive
1500	9000 390 ma. 4.4	7100 500 ma. 6.7			←Plate to Plate load ←Max. Av. Ip. ←Watts drive

CLASS C TELEGRAPHY

Maximum Ratings

D. C. Plate Volts	2500
D. C. Plate Current, ma.....	300
D. C. Grid Current, ma.....	80
D. C. Grid Volts	400
Plate Dissipation, watts.....	200

Typical Operating Conditions

D. C. Plate Volts.....	2000	2500
D. C. Plate Current, ma.....	300	300
D. C. Grid Current, ma.....	51	51
D. C. Grid Bias Volts.....	-136	-190
From Grid Leak of, ohms.....	2670	3730
Or { Fixed Supply of, volts.....	-75	-100
From { Plus Grid Leak of, ohms.....	1200	1765
Plate Dissipation, watts.....	140	150
Power Output, watts.....	460	600
Driving Power, watts.....	14	17

CLASS C TELEPHONY

Maximum Ratings

D. C. Plate Volts	1000
D. C. Plate Current, ma.....	250
D. C. Grid Current, ma.....	60
D. C. Grid Volts	400
Plate Dissipation, watts.....	135

Typical Operating Conditions

D. C. Plate Volts	1750	2000
D. C. Plate Current, ma.....	250	250
D. C. Grid Current, ma.....	45	43
D. C. Grid Bias Volts.....	151	195
From Grid Leak of, ohms.....	3350	4500
Or { Fixed Supply of, volts.....	-65	-75
From { Plus Grid Leak of, ohms.....	1900	2600
Plate Dissipation, watts.....	92	95
Power Output, watts.....	345	405
Driving Power, watts.....	12.5	13.7

CLASS B AUDIO

Typical Operating Conditions for Two Tubes

D. C. Plate Volts	1500	2000	2500	3000
D. C. Plate Current, ma.....	500	500	500	450
D. C. Grid Bias Volts.....	-35	-45	-67.5	-80
Power Output, watts.....	525	720	900	1000
Driving Power, watts.....	7	7.2	7.4	8
Plate to Plate Load, ohms.....	6800	9500	12000	16000
Peak Grid to Grid Volts.....	286	306	351	362

