

Taylor

**CUSTOM
BUILT**

Tubes

805

**125 WATTS PLATE DISSIPATION
CARBON ANODE**

\$13.50

**ZERO BIAS
UP TO 510 WATTS
CLASS B AUDIO OUTPUT**

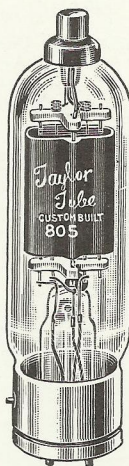
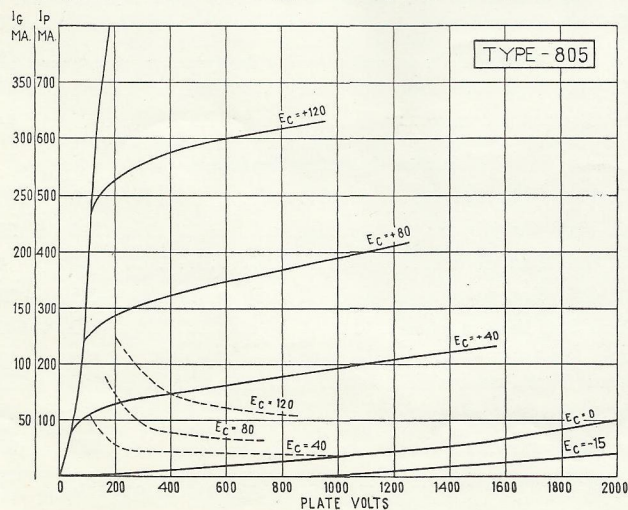
The 805 is a high mu zero bias tube of popular type incorporating the use of the famous heat tested Speer processed carbon anodes together with the Taylor Floating anode type of construction. The plate lead is brought out the top greatly minimizing the chances of voltage breakdowns.

The no-signal or static plate current is about .55MA per tube at 1250 volts (zero bias) and about 30MA per tube at 1500 volts when 15 bias volts are added. Because the 805 is a zero bias tube, or practically so, grid current flows during nearly all of the input cycle. Due to this, the input transformer design requirements are less involved and excellent frequency response with minimum distortion is easily realized. The maximum average grid driving power is approximately 8 watts. Low impedance triodes such as 2A3's or 6A3's should be used in the driver stage.

805 CLASS B AUDIO DATA

Supply Voltage ↓	275	325	400	450	Audio Watts Output
1750		270MA 15,000 4.5	330MA 12,000 6.0	390MA 10,000 9.0	←Max. Av. Ip ←Plate to Plate Load ←Watts Drive
1500	276MA 12,000 5.0	330MA 10,000 7.0	420MA 8,000 9.5	420MA 9,350 10.0	←Max. Av. Ip ←Plate to Plate Load ←Watts Drive
1250	335MA 8,000 6.25	395MA 6,800 8.5	←Max. Av. Ip ←Plate to Plate Load ←Watts Drive		

The chart above gives proper Class B Audio operating conditions for various outputs at different plate voltages. The most important value is the reflected load impedance which is given for the entire primary or plate to plate. The current value is the maximum average value as would be indicated on the plate current meter with sine wave input. For the same peak output with voice input the maximum average plate current will be approximately 50% to 60% of this value.



GENERAL CHARACTERISTICS

Filament Volts	10
Filament Current, amps.....	3.25
Amplification Factor, approx.....	45
Plate Dissipation, watts.....	125

Interelectrode Capacities

Grid-plate, mmf.....	7.7
Grid-filament, mmf.....	8.4
Plate-filament, mmf.....	1.3

Overall Dimensions

Maximum length, inches.....	8½
Maximum diameter, inches.....	2½

50 Watt Base

Nonex Glass

CLASS C TELEGRAPHY Maximum Ratings

D. C. Plate Volts.....	1750
D. C. Plate Current, ma.....	210
D. C. Grid Current, ma.....	70
D. C. Grid Volts.....	500
Plate Dissipation, watts.....	125

Typical Operating Conditions

D. C. Plate Volts.....	1000	1500	1750
D. C. Plate Current, ma.....	200	200	200
D. C. Grid Current, ma.....	45	45	44
D. C. Grid Bias Volts.....	-75	-85	-90
From grid leak of, ohms.....	1650	1880	2000
Or { Fixed Supply of, volts.....	-30	-50	-60
From { Plus Grid Leak of, ohms.....	1000	780	700
Plate Dissipation, watts.....	56	72	80
Power Output, watts.....	144	228	270
Driving Power, watts.....	8.7	9	9.2

CLASS C TELEPHONY Maximum Ratings

D. C. Plate Volts.....	1500
D. C. Plate Current, ma.....	175
D. C. Grid Current, ma.....	70
D. C. Grid Volts.....	500
Plate Dissipation, watts.....	85

Typical Operating Conditions

D. C. Plate Volts.....	1000	1500
D. C. Plate Current, ma.....	175	175
D. C. Grid Current, ma.....	45	40
D. C. Grid Bias Volts.....	-100	-140
From grid leak of, ohms.....	2200	3500
Or { Fixed Supply of, volts.....	-30	-50
From { Plus Grid Leak of, ohms.....	1500	2250
Plate Dissipation, watts.....	50	55
Power Output, watts.....	125	208
Driving Power, watts.....	10.0	10.5

CLASS B AUDIO

Typical Operating Conditions For Two Tubes

D. C. Plate Volts.....	1250	1500	1750
D. C. Plate Current, ma.....	400	420	420
D. C. Grid Bias Volts.....	0	-15	-22.5
Power Output, watts.....	325	400	510
Driving Power, watts.....	8.5	9.5	10
Plate to Plate load, ohms.....	6700	7850	9350
Peak Grid to Grid Volts.....	268	306	320