

Taylor

CUSTOM
BUILT

Tubes



838

ZERO BIAS CLASS B MODULATOR
100 WATTS PLATE DISSIPATION

\$10.50

Taylor 838 is a high-mu triode especially designed for zero-bias modulator service. As an R F power Amplifier, the 838 may be used at maximum ratings at frequencies up to 30 mc.

GENERAL CHARACTERISTICS

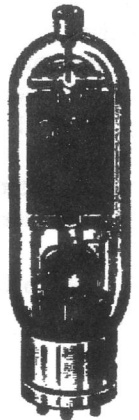
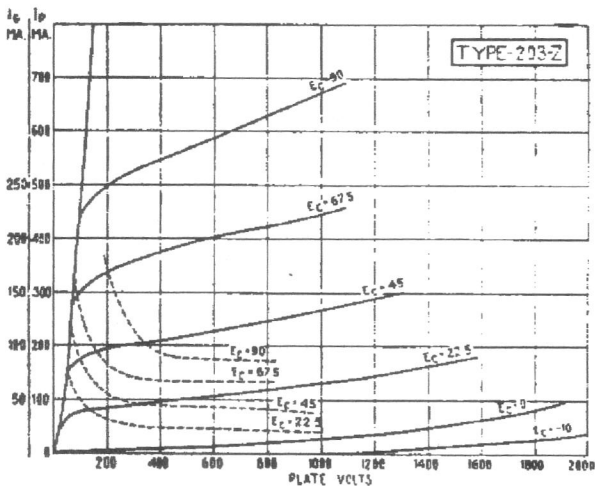
Filament Voltage (A.C. or D.C.), volts.....	10.0
Filament Current, amps.....	3.25
Direct Interelectrode Capacitances:	
Grid-Plate, uuf.....	8
Grid-Filament, uuf.....	6.5
Plate-Filament, uuf.....	5
MAXIMUM HEIGHT.....	7 7/8"
MAXIMUM DIAMETER.....	2 3/8"

TYPICAL OPERATING CONDITIONS

As A-F Power Amplifier and Modulator—Class B

Unless Otherwise Specified, Values Are for 2 Tubes

D-C Plate Voltage, volts.....	1250
D-C Grid Voltage, volts.....	0
Peak A-F Grid-to-Grid Voltage, volts.....	200
Zero-Sig. D-C Plate Current, ma.....	148
Max. Sig. D-C Plate Current, ma.....	320
Load Resistance (per tube), ohms.....	2250
Effective Load Resistance (plate-to-plate), ohms.....	9000
Max-Sig. Driving Power (approx.), watts.....	7.5
Max-Sig. Power Output, watts.....	260



203-Z

ZERO BIAS TUBE
65 WATTS PLATE DISSIPATION
Nickel Anode

\$8.00

300 WATTS CLASS B OUTPUT

GENERAL CHARACTERISTICS

Filament Volts.....	10
Filament Current, amps.....	3.25
Amplification Factor.....	85
Plate Dissipation, watts.....	65

Overall Dimensions

Maximum Length, inches.....	.814
Maximum Diameter, inches.....	2 1/8"
50 Watt Base.....	Nonex Glass

CLASS B AUDIO

Maximum Ratings

D. C. Plate Volts.....	1250
D. C. Plate Current, ma.....	175
Plate Dissipation, watts.....	65

Typical Operating Conditions for Two Tubes

D. C. Plate Volts.....	1000	1250
D. C. Plate Current, ma. (max. signal).....	350	350
D. C. Plate Current, ma. (zero signal).....	60	50
D. C. Grid Bias Volts.....	0	-4.5
Power Output, watts.....	230	300
Driving Power, watts.....	6.5	6.75
Peak Grid to Grid, volts.....	206	215
Plate to Plate Load, ohms.....	6200	8000

CLASS B AUDIO DATA

The chart below gives 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 per cent of this value.

Supply Voltage ↓	150	200	250	300	Audio Watts ← Output
1250	170 17500 135 2.5	230 12500 165 3.9	300 9500 195 5.6	350 8000 215 6.75	←Max. Av. Ip. ←Plate to Plate load ←Grid to Grid Volts ←Watts drive
1100	200 12700 149 3.1	270 9000 183 5.0	350 7000 215 6.75	←Max. Av. Ip. ←Plate to Plate load ←Grid to Grid Volts ←Watts drive	
1000	220 10000 150 3.4	320 6900 203 6.4	←Max. Av. Ip. ←Plate to Plate load ←Grid to Grid Volts ←Watts drive		
900	250 7900 164 4.1	350 5400 206 6.5	←Max. Av. Ip. ←Plate to Plate load ←Grid to Grid Volts ←Watts drive		