

Taylor

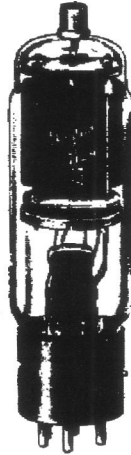
CUSTOM
BUILT

Tubes

R-F POWER AMPLIFIER AND OSCILLATOR PENTODE. CLASS C

Key-Down Conditions Per Tube Without Modulations

Plate Volts, D. C.	1250	1500	2000
Plate Current, D. C., milliamperes	160	160	160
Grid Bias, Volts, D. C., or.....	-90	-90	-90
From Cathode Resistor, ohms,			
or.....	415	415	415
From Grid Resistor, ohms....	7500	7500	7500
Grid Volts, Peak R-F.....	175	175	175
Grid Current, D. C., milliamperes	12	12	12
Screen Volts, D. C.	500	500	500
Screen Current, D. C., milliamperes.....	45	45	45
Screen Resistor.....	Not Recommended		
Suppressor Volts, D. C.	40	40	40
Driving Power, watts.....	2	2	2
Power Output, watts.....	130	160	210



803

PENTODE

125 WATT PLATE DISSIPATION

\$25.00

GENERAL CHARACTERISTICS

Filament Voltage, volts.....	10
Filament Current, amps.....	5
Transconductance, I_p of 62.5 Ma., umhos.....	4000
Capacitance, Grid-Plate (with external shielding), max. uuf.....	0.15
Capacitance, Input, uuf.....	17.5
Capacitance, Output, uuf.....	29

R-F POWER AMPLIFIER AND OSCILLATOR TETRODE. CLASS C

Grids No. 2 and No. 3 Connected Together

Key-Down Conditions Per Tube Without Modulations

TYPICAL OPERATION

Plate Volts, D. C.	1250	1500	2000
Plate Current, D. C., milliamperes.....	160	160	160
Grid Bias, Volts, D. C., or.....	-90	-90	-90
From Cathode Resistor, ohms.....	445	445	445
From Grid Resistor, ohms.....	3200	3300	3500
Grid Volts, Peak R-F.....	190	190	190
Grid Current, D. C., ma.....	28	27	28
Screen Volts, D. C.	150	150	150
Screen Current, D. C., milliamperes.....	15	15	15
Screen Resistor.....	Not Recommended		
Driving Current, watts.....	4.6	4.4	4.4
Power Output, watts.....	130	160	210

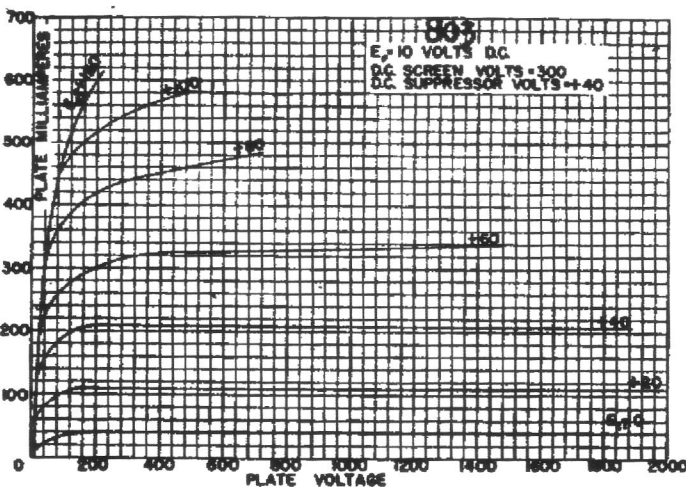
NOTES

*Grid Voltages are given with respect to the mid-point of filament operated on A. C.; if D. C. is used, each stated value of grid voltage should be decreased by 7 volts and the circuit returns connected to the negative end of the filament.

†Connected to modulated plate-voltage supply or modulated fixed supply through resistor.

‡Preferably connected to unmodulated plate-voltage supply through resistor.

§Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.



SUPPRESSOR-MODULATED R-F POWER AMPLIFIER PENTODE. CLASS C

Carrier Conditions Per Tube for Use With a Maximum Modulation Factor of 1.0

TYPICAL OPERATION

Plate Volts, D. C.	1250	1500	2000
Plate Current, D. C., milliamperes.....	100	100	80
Grid Bias, Volts, D. C., or.....	-110	-100	-100
From Grid Resistor, ohms.....	5000	5000	7000
Grid Volts, Peak R-F.....	200	190	170
Grid Current, D. C., milliamperes.....	22	20	15
Screen Resistor, ohms.....	13000	17000	35000
Screen Current, D. C., milliamperes.....	70	70	48
Suppressor Volts, D. C.	-70	-90	-110
Suppressor Volts, Peak A-F.....	110	130	150
Driving Power, watts.....	4	3.5	2.5
Power Output, watts.....	40	50	53

PLATE MODULATED R-F POWER AMPLIFIER PENTODE. CLASS C

Carrier Conditions Per Tube for Use With a Maximum Modulation Factor of 1.0

TYPICAL OPERATION

Plate Volts.....	1250	1600
Plate Current, D. C., milliamperes.....	150	150
Grid Bias, Volts, D. C., or.....	-80	-80
From Grid Resistor, ohms.....	4000	4000
Grid Volts, Peak R-F.....	180	180
Grid Current, D. C., milliamperes.....	20	20
Screen Volts, D. C., or.....	400	500
Screen Resistor, ohms.....	16000	20000
Screen Current, D. C., milliamperes.....	55	55
Suppressor Volts, D. C.	100	100
Driving Power, watts.....	4	4
Power Output, watts.....	125	155

PLATE MODULATED R-F POWER AMPLIFIER TETRODE. CLASS C

Grids No. 2 and No. 3 Connected Together

Carrier Conditions Per Tube for Use With a Maximum Modulation Factor of 1.0

TYPICAL OPERATION

Plate Volts, D. C.	1250	1600
Plate Current, D. C., milliamperes.....	150	150
Grid Bias Volts, D. C., or.....	-180	-180
From Grid Resistor, ohms.....	4000	4000
Grid Volts, Peak R-F.....	305	320
Grid Current, D. C., milliamperes.....	45	45
Screen Volts, D. C., or.....	130	130
Screen Resistor, ohms.....	15000	20000
Screen Current, D. C., milliamperes.....	75	75
Driving Power, watts.....	15	15
Power Output, watts.....	125	155