

TYPICAL OPERATION

Audio Amplifier or Modulator (Class AB₂) — Two Tubes

	CCS ⁴			ICAS ⁵
Plate Voltage	400	500	600	750 Volts
Screen Grid Voltage ⁶	300	300	300	300 Volts
Control Grid Voltage	-25	-29	-30	-32 Volts
Peak Grid to Grid Signal Voltage	78	86	78	92 Volts
Plate Current (Zero Signal)	90	72	60	52 Ma
Plate Current (Maximum Signal)	240	240	200	240 Ma
Screen Current (Zero Signal)	5	5	5	5 Ma
Screen Current (Maximum Signal)	10	10	10	10 Ma
Load Resistance (Plate to Plate)	3200	4240	6400	6950 Ohms
Driving Power (Maximum Signal) (approx.) ⁷	0.2	0.2	0.1	0.2 Watt
Power Output (approx.) ⁸	55	75	80	120 Watts

RF Power Amplifier (Class B Telephony)

Single Tube — 100% Modulation of Driver Stage

Plate Voltage	400	500	600	750 Volts
Screen Grid Voltage	250	250	250	300 Volts
Control Grid Voltage ⁹	-25	-25	-25	-35 Volts
Peak Signal Voltage	30	30	20	27 Volts
Plate Current	75	75	62.5	60 Ma
Screen Current	4	4	3	3 Ma
Control Grid Current (approx.)	0	0	0	0 Ma
Driving Power (approx.)	0.25	0.25	0.2	0.12 Watt
Power Output (approx.)	9	12.5	12.5	15 Watts

RF Power Amplifier (Class C Telephony)

Single Tube — 100% Plate Modulation

Plate Voltage	325	400	475	600 Volts
Screen Grid Voltage ¹⁰	225	225	225	275 Volts
Screen Dropping Resistor	20000	30000	50000	50000 Ohms
Control Grid Voltage ¹¹	-75	-80	-85	-90 Volts
Grid Leak Resistor	25000	22800	21300	22500 Ohms
Peak Signal Voltage	90	95	110	115 Volts
Plate Current	80	80	83	100 Ma
Screen Current	5	5.75	5	6.5 Ma
Grid Current (approx.)	3	3.5	4	4 Ma
Driving Power (approx.)	0.25	0.3	0.4	0.4 Watt
Power Output (approx.)	17.5	22.5	27.5	42.5 Watts