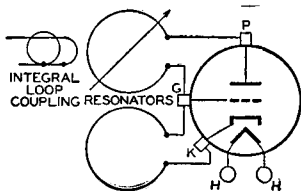


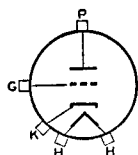
FIXED-TUNED OSCILLATOR TRIODE



Pencil-type tube having integral resonators used in radiosonde service at 1680 Mc. Fixed-Tuned Oscillator maximum plate dissipation, 3.6 watts. May be mounted in any position. The 5794

5794

is identical with type 6562 except that the 5794 does not have an external connection between the cathode and one side of the heater. OUTLINE 68, *Outlines* Section.



HIGH-MU TRIODE

Pencil-type tube used as rf power amplifier and oscillator at frequencies up to 1700 Mc. Designed for use in coaxial-cylinder-type circuits, it may also be used in parallel-line or lumped

5876

circuits. Class C Telephony maximum CCS plate dissipation, 6.25 watts. May be mounted in any position. OUTLINE 65, *Outlines* Section.

HEATER VOLTAGE (AC/DC)	6.3 ± 10%	volts
HEATER CURRENT	0.135	ampere
TRANSCONDUCTANCE*	6500	μmhos
AMPLIFICATION FACTOR*	56	
PLATE RESISTANCE (Approx.)*	8625	ohms
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate	1.4	μμf
Grid to cathode and heater	2.4	μμf
Plate to cathode and heater	0.035 max	μμf

*Plate-supply volts, 250; cathode resistor, 75 ohms; plate milliamperes, 18.

RF POWER AMPLIFIER AND OSCILLATOR—Class C Telephony # and

RF POWER AMPLIFIER—Class C FM Telephony

Maximum CCS Ratings:

DC PLATE VOLTAGE	360 max	volts
DC GRID VOLTAGE	-100 max	volts
DC PLATE CURRENT	25 max	ma
DC GRID CURRENT	8 max	ma
PLATE INPUT	9 max	watts
PLATE DISSIPATION ♦	6.25 max	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max	volts
Heater positive with respect to cathode	90 max	volts
PLATE-SEAL TEMPERATURE	175 max	°C

Typical Operation in Cathode-Drive Circuit:

	Amplifier		Oscillator		
	500 Mc	500 Mc	1700 Mc		
DC Plate Voltage	275	250	250		volts
DC Grid Voltage	-51	-12	-2		volts
DC Plate Current	23	23	23		ma
DC Grid Current (Approx.)	7	6	3		ma
Driver Power Output (Approx.)	2	—	—		watts
Useful Power Output (Approx.)	5	3	0.75		watts

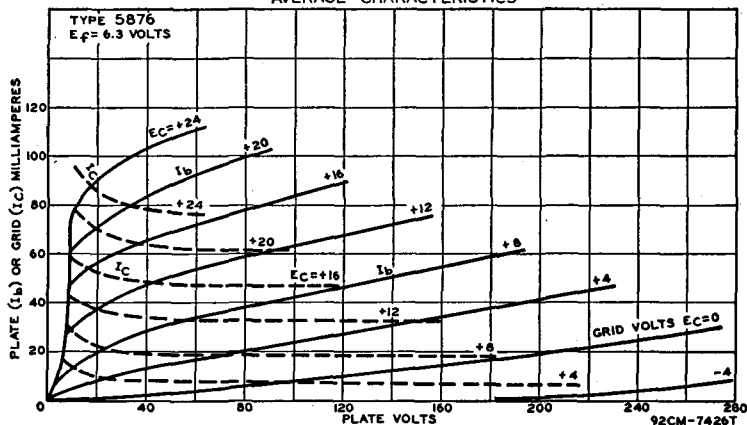
Maximum Circuit Values:

Grid-Circuit Resistance	0.1 max	megohm
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Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

♦ In applications where the plate dissipation exceeds 2.5 watts, it is important that a large area of contact be provided between the plate cylinder and the connector to provide adequate heat conduction.

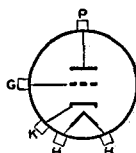
AVERAGE CHARACTERISTICS



MEDIUM-MU TRIODE

5893

Pencil-type tube used as plate-pulsed oscillator, as rf power amplifier and oscillator, and as frequency doubler. May be used with full input up to 1000 Mc and with reduced input up to



3300 Mc. Designed for use in coaxial-cylinder-type circuits, it may also be used in parallel-line and lumped circuits. Class C Telegraphy maximum plate dissipation, CCS 7 watts, ICAS 8 watts. May be mounted in any position. OUTLINE 66, *Outlines* Section.

HEATER VOLTAGE (AC/DC):	6.0 + 5%	volts
	-10%	
HEATER CURRENT	0.330	ampere
TRANSCONDUCTANCE*	6000	μmhos
AMPLIFICATION FACTOR*	27	
PLATE RESISTANCE (Approx.)*	4500	ohms
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate	1.75	μf
Grid to cathode and heater	2.5	μf
Plate to cathode and heater	0.07 max	μf

* Plate-supply volts, 200; cathode resistor, 100 ohms; plate milliamperes, 25.

PLATE-PULSED OSCILLATOR^A—Class C

For a maximum "on" time^B of 5 microseconds

Maximum Ratings:

PEAK POSITIVE-PULSE PLATE-SUPPLY VOLTAGE [†]	1750 max	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE	150 max	volts
PEAK PLATE CURRENT FROM PULSE SUPPLY	3 max	amperes
PEAK RECTIFIED GRID CURRENT	1.3 max	amperes
DC PLATE CURRENT	3 max	ma
DC GRID CURRENT	1.3 max	ma
PLATE DISSIPATION*	6 max	watts
DUTY FACTOR ^B	0.001 max	
PULSE DURATION	1.5 max	μsec
PLATE-SEAL TEMPERATURE	175 max	°C

Typical Operation with Rectangular Wave Shape in Cathode-Drive Circuit at 3300 Mc:

With duty factor^B of 0.001

Peak Positive-Pulse Plate-Supply Voltage [†]	1750	volts
Peak Negative-Pulse Grid Voltage [‡]	110	volts
From grid resistor of	100	ohms
Peak Plate Current from Pulse Supply	3.0	amperes