The CK6051 is a filament type subminiature power amplifier pentode, suitable for intermittent service applications such as "push-to-talk" transmitters which do not require long life characteristics. It is designed for use in portable or wearable communications equipment for Class C service. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

**MECHANICAL DATA**

**ENVELOPE:** T2X3 Glass

**BASE:** None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: 0.049" center-to-center.)

**TERMINAL CONNECTIONS:** (Red Dot is Adjacent to Lead 1)

- Lead 1 Plate
- Lead 2 Grid #2
- Lead 3 Filament, Negative Grid #3 A
- Lead 4 Grid #1
- Lead 5 Filament, Positive

**MOUNTING POSITION:** Any

**ELECTRICAL DATA**

**DIRECT INTERELECTRODE CAPACITANCES:** (pf's)

- Grid to Plate: (g1 to p) 0.25 max.
- Input: g to (f+g2+g3) 3.65
- Output: p to (f+g2+g3) 3.0

**RATINGS—DESIGN MAXIMUM VALUES:**

- Filament Voltage (dc) 1.25 ± 10% volts
- Plate Voltage 67.5 volts
- Grid #2 Voltage 67.5 volts
- Cathode Current 9.5 mA
- Plate Dissipation 0.37 watt
- Grid #2 Dissipation 0.11 watt

**CHARACTERISTICS AND TYPICAL OPERATION—CLASS A1 AMPLIFIER:**

- Filament Voltage a 1.25 volts
- Filament Current 100 mA
- Plate Voltage 45 volts
- Grid #2 Voltage 45 volts
- Grid #1 Voltage -4.0 volts
- Plate Current 4.0 ma
- Grid #2 Current 1.1 ma
- Transconductance (approx.) 1350 µmhos
- Plate Resistance (approx.) 35000 ohms

**CHARACTERISTICS AND TYPICAL OPERATION—CLASS C OSCILLATOR:**

- Filament Voltage (dc) 1.25 volts
- Filament Current 100 ma
- DC Plate Voltage 45 volts
- DC Grid #2 Voltage 45 volts
- Plate Current 4.8 ma
- Grid #2 Current 2.0 ma
- Grid #1 Current (approx.) 200 µa
- Useful Power Output 75 mw
- Frequency 50 Mc

*Grid #3 is comprised of two separate deflector plates, one of which is connected to lead 3 and the other to lead 5.*

These data identify a particular developmental tube design, and the tube designation or the descriptive data may be subject to change or abandonment.

**Objective Data**

**INDUSTRIAL COMPONENTS DIVISION**

Printed in USA

September 15, 1957

55 CHAPEL ST., NEWTON 58, MASS.

Page 1 of 2