The CK6029 is a filament type triode of subminiature construction designed for use as a high frequency oscillator up to several hundred megacycles. The design characteristics are optimized for high peak current, high frequency operation at relatively low filament power. The CK6029 is suitable for intermittent service applications such as "push-to-talk" transmitters which do not require long life characteristics. 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**: T-2X3 Glass
- **BASE**: None (0.016" tinned flexible leads, Length: 1.5" min, Spacing: 0.048" center-to-center)
- **TERMINAL CONNECTIONS**: (Red dot is adjacent to lead 1)
  - Lead 1: Plate
  - Lead 2: Filament, Negative
  - Lead 3: Grid
  - Lead 4: Filament, Positive
- **MOUNTING POSITION**: Any

**ELECTRICAL DATA**

**DIRECT INTERELECTRODE CAPACITANCES**: (μfd.)
- Grid to Plate: 1.6
- Grid to Filament: 1.3
- Plate to Filament: 1.8

**DESIGN CENTER MAXIMUM RATINGS**:
- Filament Voltage (dc): 1.25 volts
- Plate Voltage: 135 volts
- Plate Current: 14 ma.
- Plate Dissipation: 1.0 watt

**CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER**:
- Filament Voltage (dc): 200 ma.
- Plate Voltage: 90 volts
- Grid Voltage: 4.0 volts
- Amplification Factor: 8.5
- Transconductance: 2000 μmhos
- Plate Current: 11 ma.

**CHARACTERISTICS AND TYPICAL OPERATION - CLASS C AMPLIFIER**: (At frequencies below 100 Mc.)
- Filament Voltage (dc): 1.25 volts
- Filament Current: 200 ma.
- Plate Voltage: 135 volts
- Grid Resistor: 5000 ohms
- Grid Current (approx.): 4 ma.
- Plate Current: 14 ma.
- Power Output (approx.): 1.1 watts

▲ Without shield.

■ The CK6029 may be used as an oscillator at frequencies appreciably higher than 100 Mc.

At 400 Mc., it has sufficient power output to be used as the local oscillator for a converter.
AVERAGE PLATE CHARACTERISTICS

Conditions:
Et = 1.25 v
Ib
Ic1