The CK9575 is a filament type, fully shielded, sharp-cutoff pentode of subminiature construction designed for use as a blocking oscillator in radioonde applications. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard subminiature sockets may be used by cutting the leads to 0.20" 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: Grid #2
- Lead 3: Filament, Negative; Shield; Grid #3
- Lead 4: Grid #1
- Lead 5: Filament, Positive; Grid #3

**MOUNTING POSITION:** Any

**ELECTRICAL DATA**

**DIRECT INTERELECTRODE CAPACITANCES:** *(uufds.)*

- Grid to Plate (g1 to p): 0.03 max.
- Input: g1 to (f+g2+g3+) shd.: 4.0
- Output: p to (f+g2+g3+) shd.: 4.0

**RATINGS-ABSOLUTE MAXIMUM VALUES:**

- Filament Voltage (dc): 1,250 ± 20% volts
- Plate Voltage: 100 volts
- Grid #2 Voltage: 100 volts
- Total Cathode Current: 7.0 ma.

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

- Filament Voltage (dc): 1.25 volts
- Filament Current: 100 ma.
- Plate Voltage: 90 volts
- Grid #2 Voltage: 90 volts
- Grid #1 Voltage: 0 volts
- Transconductance: 2500 \( \mu \text{mhos} \)
- Plate Current: 3.5 ma.
- Grid #2 Current: 0.9 ma.
- Grid #1 Voltage (approx.) for \( G_m \): 10 \( \mu \text{mhos} \)
- Grid #3 Voltage (approx.) for \( G_m \): -3.5 volts

- Bulb is entirely coated with a metallic shield connected to lead 3:

- Grid #3 is comprised of two separate deflector plates, one of which is connected to lead 3 and the other to lead 5.
AVERAGE PLATE CHARACTERISTICS
(Triode Connected)

- Ec1 = ±12 V
- Ef = 6.3 V
- G2 Tied to Plate
- Id = __________
- Ic1 = __________

Plate Voltage - Volts

AVERAGE PLATE CHARACTERISTICS

- Ef = 1.25 V
- Ec2 = 90 V
- Id = __________
- Ic2 = __________

Plate Voltage - Volts

INDUSTRIAL TUBE DIVISION