DESCRIPTION

The 591C is a filament-type sharp-cutoff pentode of miniature construction. It is designed for use in Radiconde applications as a blocking oscillator where high grid leakage resistance (in excess of 500 megohms) rather than low microphony is of paramount importance.

MECHANICAL DATA

Envelope: T-5 1/2 Class
Base: Miniature Button 7-Pin

Dimensions:
- Maximum Overall Length: 2 1/8 inches
- Maximum Seated Height: 1 7/8 inches
- Maximum Diameter: 3/4 inches

Terminal Connections: (JETEC Designation 6AR)
- Pin 1: Filament-Neg., Grid #3, and Internal Connection
- Pin 2: Plate
- Pin 3: Grid #2
- Pin 4: No Connection
- Pin 5: Filament-Neg., Grid #3, and Internal Shield
- Pin 6: Grid #1
- Pin 7: Filament, Pos.

Mounting Position: Any

ELECTRICAL DATA

Direct Inter-electrode Capacitances (unfids.)
- Grid #1 to Plate: .008 max.
- Input: 3.6
- Output: 7.5

Ratings:
- Filament Voltage: 2.0 volts (Abs. Max.)
- Plate Voltage: 90 volts
- Grid #2 Voltage: 90 volts
- Total Cathode Current: 6.5 ma.
- External Grid Bias: 0 volts

Characteristics and Typical Operation - Class A1:
- Filament Voltage: 1.4 volts
- Filament Current: 0.05 amps
- Plate Voltage: 90 volts
- Grid #2 Voltage: 90 volts
- Grid #1 Voltage**: 0 volts
- Plate Resistance (Approx.): 1.5 megohms
- Transconductance: 300 unh
- Plate Current: 1.6 ma.
- Grid #2 Current: 0.45 ma.
- Grid #1 Voltage for Transconductance = 10 volts
- = 125 volts
N.E.

- With JTEG shield #316 connected to Pin A.
- Return to negative filament.