The CK5969 is a filament type double tetrode of subminiature construction designed for Push-Pull Class C RF amplifier service, without neutralization, at VHF frequencies. The screen grids for the two sections are connected internally, and to two of the base terminal leads. This feature, together with the common internal filament connections between the two sections, reduces the RF impedance between sections to facilitate Push-Pull RF performance. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard 8-pin subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA

ENVELOPE: T-3 Glass
BASE: Subminiature Button 8-Pin (0.016" tinned flexible leads, Length: 1.50" minimum)

TERMINAL CONNECTIONS:
Lead 1 Filament, Negative
Lead 2 Grid #1, Unit 2
Lead 3 Grid #2, Unit 1 and 2
Lead 4 Plate, Unit 2

Lead 5 Plate, Unit 1
Lead 6 Grid #2, Unit 1 and 2
Lead 7 Grid #1, Unit 1
Lead 8 Filament, Positive

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (each unit) (pF/diode)
Grid to Plate: (p to p) 0.30 max.
Input: g1 to (f+g2) 2.5
Output: p to (f+g2) 2.5
Grid to Grid: (1g to 2g) 0.14
Plate to Plate: (1p to 2p) 0.30

RATINGS -- ABSOLUTE MAXIMUM VALUES -- PUSH-PULL CLASS C AMPLIFIER:
Filament Voltage (dc) 1.25 ± 20% volts
Plate Voltage 150 volts
Grid #2 Voltage 50 volts
Cathode Current 15 ma.
Plate Dissipation (each section) 0.96 watts

CHARACTERISTICS AND TYPICAL OPERATION -- CLASS A AMPLIFIER:
Filament Voltage (dc) 1.25 volts
Filament Current 200 ma.
Plate Voltage 133 volts
Grid #2 Voltage 45 volts
Grid #1 Voltage ~3.0 volts
Transconductance (each unit) ▲ 1700 µmhos
Plate Current (each unit) ▲ 6.0 ma.
Grid #2 Current (each unit) ▲ 0.6 ma.
Grid #1 Voltage (approx., for lb = 50 µa, (each unit) ▲ ~12 volts

● No External Shield.
▲ Ec1 = -15 on unit not under test.

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