The CK5970 is a filament type double pentode of subminiature construction with remote cut-off characteristics designed for use as a Class A RF amplifier at frequencies in the VHF range. The flexible terminal leads may be soldered or welded 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 (0.017" tinned flexible leads. Length: 1.50" minimum)

TERMINAL CONNECTIONS:
Lead 1 Filament Negative ●
Lead 2 Grid #1, Unit 2
Lead 3 Grid #2, Unit 2
Lead 4 Plate, Unit 2
Lead 5 Plate, Unit 1
Lead 6 Grid #2, Unit 1
Lead 7 Grid #1, Unit 1
Lead 8 Filament Positive ●

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (unshielded) (μfd.s.)
Grid to Plate (each unit) 0.1 max.
Input (each unit) 3.3
Output (each unit) 2.4
Grid #1 to Grid #1 0.02
Plate to Plate 0.3

RATINGS - ABSOLUTE MAXIMUM VALUES:
Filament Voltage (dc) 1.25 ± 20% volts
Plate Voltage 45 volts
Grid #2 Voltage 45 volts
Total Cathode Current (each unit) 5 ma.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A 1 AMPLIFIER:

Filament Voltage (dc) 1.25 volts
Filament Current 160 ma.
Plate Voltage 45 volts
Grid #2 Voltage 45 volts
Grid #1 Voltage ● 0 volts
Plate Resistance (each unit) 0.17 meg.
Transconductance (each unit) 1850 μmhos
Plate Current (each unit) 3.0 ma.
Grid #2 Current (each unit) 0.9
Grid #1 Voltage (approx.) for Plate Current of 20 μA (each unit) -11.5 volts

● Grid #3 is composed of two separate deflector plates, one of which is connected to Lead 1, and the other to Lead 8.

● Grid resistor=5 megohms.

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Tentative Data

RAYTHEON MANUFACTURING COMPANY
RECEIVING AND CATHODE RAY TUBE OPERATIONS

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