

*Excellence in Electronics*

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 DATAENVELOPE: T-3 GlassBASE: 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) ($\mu\text{fds.}$)

Grid to Plate (each unit)
Input (each unit)
Output (each unit)
Grid #1 to Grid #1
Plate to Plate

0.1 max.
3.3
2.4
0.02
0.3

RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc)
Plate Voltage
Grid #2 Voltage
Total Cathode Current (each unit)

1.25 $\pm$ 20 % volts
45 volts
45 volts
5 ma.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

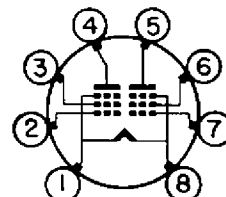
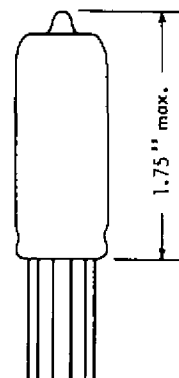
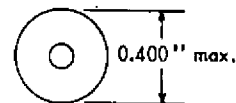
Filament Voltage (dc)
Filament Current
Plate Voltage
Grid #2 Voltage
Grid #1 Voltage ♦
Plate Resistance (each unit)
Transconductance (each unit)
Plate Current (each unit)
Grid #2 Current (each unit)
Grid #1 Voltage (approx.)
for Plate Current of 20 $\mu\text{A.}$ (each unit)

1.25 volts
160 ma.
45 volts
45 volts
0 volts
0.17 meg.
1850 μmhos
3.0 ma.
0.9

-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.

TYPE
CK5970

BOTTOM VIEW

8DS

from JETEC release #1961, July 1, 1957

Tentative Data

RAYTHEON MANUFACTURING COMPANY
RECEIVING AND CATHODE RAY TUBE OPERATIONS