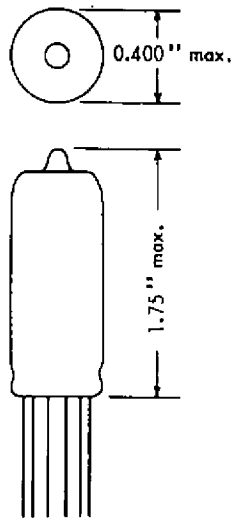
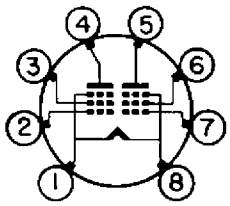
*Excellence in Electronics*

# TYPE CK5970

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.




BOTTOM VIEW

8DS

## 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 5 Plate, Unit 1 |
| Lead 2 Grid #1, Unit 2 | Lead 6 Grid #2, Unit 1 |
| Lead 3 Grid #2, Unit 2 | Lead 7 Grid #1, Unit 1 |
| Lead 4 Plate, Unit 2 | Lead 8 Filament Positive ● |

MOUNTING POSITION: Any

## ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (unshielded) (μμfds.)

| | | |
|---|---|---|
| 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 A1 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.*

from JETEC release #1961, July 1, 1957

Tentative Data