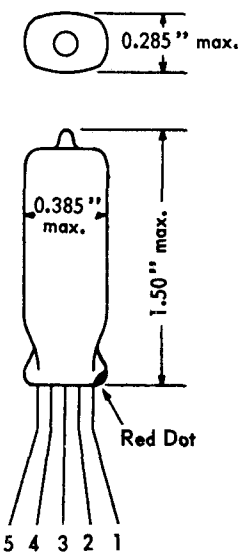
SUBMINIATURE TRIODE

# TYPE CK5971

The CK5971 is a filament type triode of subminiature construction designed for use as an amplifier oscillator, or frequency multiplier in the VHF Range. The CK5971 features exceptional ruggedness and is suited for applications involving high impact shock. The flexible terminal leads may soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.




## MECHANICAL DATA

ENVELOPE: T-2X3 Glass

BASE: None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: 0.048" center-to-center.)

TERMINAL CONNECTIONS: *(Red dot is adjacent to lead 1)*

| | |
|---|---|
| Lead 1 Plate | Lead 4 Grid |
| Lead 2 Grid | Lead 5 Filament, top, positive |
| Lead 3 Filament, bottom, negative | |

MOUNTING POSITION: Any

## ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (μμfds.) ●

| | |
|---|---|
| Grid to Plate: (g to p) | 2.3 |
| Input: (g to f) | 1.6 |
| Output: (p to f) | 1.7 |

RATINGS - ABSOLUTE MAXIMUM VALUES:

| | |
|---|---|
| Filament Voltage (dc) | 1.25±20% volts |
| Plate Voltage | 90 volts |
| Plate Current | 5 ma. |

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

| | |
|---|---|
| Filament Voltage (dc) | 1.25 volts |
| Filament Current | 80 ma. |
| Plate Voltage | 67.5 volts |
| Grid Voltage | ▲ 0 volts |
| Amplification Factor | 23 |
| Transconductance | 2100 μmhos |
| Plate Current | 3.5 ma. |
| Grid Voltage (approx.) for Ib=50 μa. | -3.5 volts |

● *No shield.*

▲ *Grid Resistor=5 megohms.*

Tentative Data

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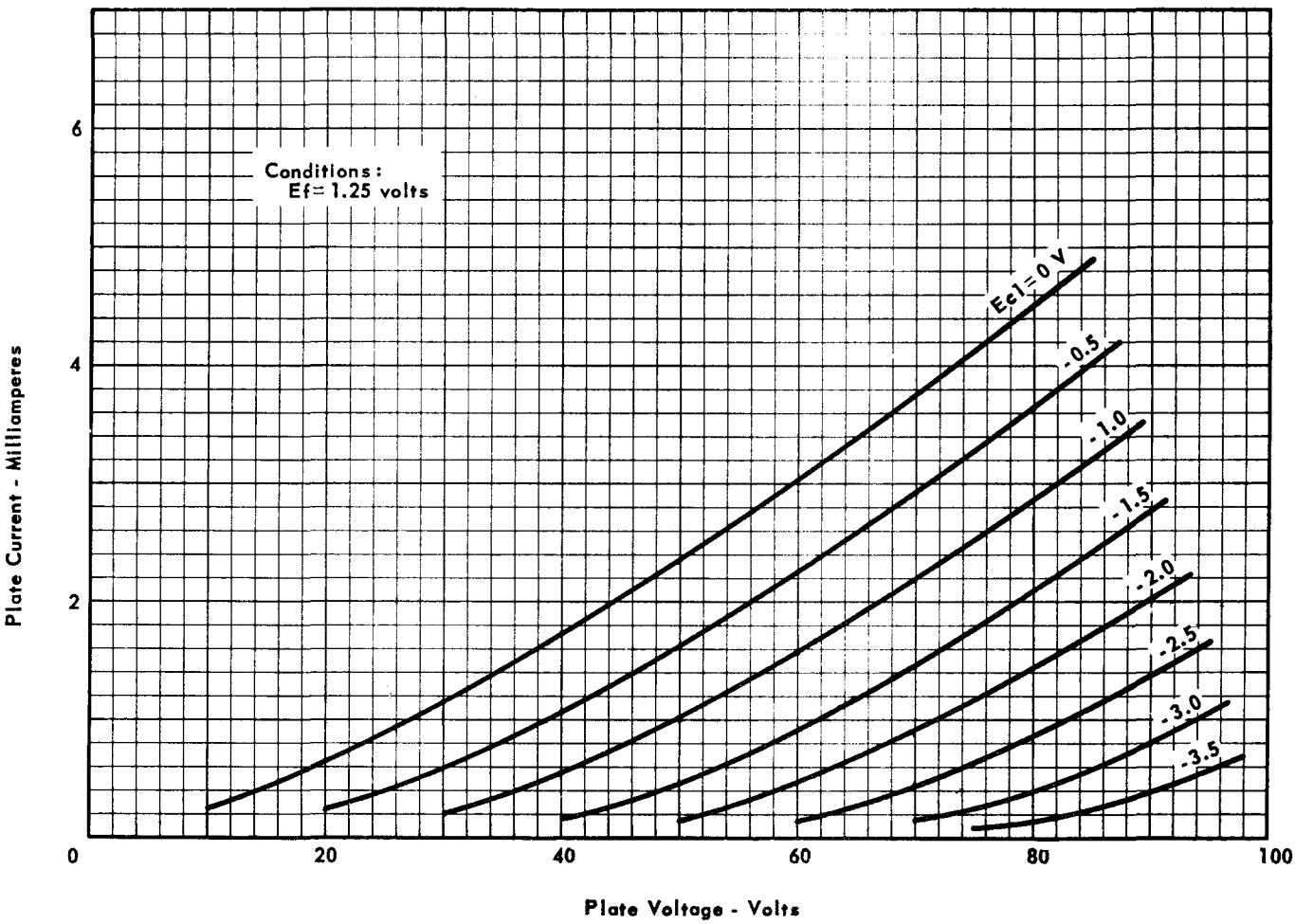
PLATE CURRENT VS. PLATE VOLTAGE