

*Excellence in Electronics***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 be 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 DATAENVELOPE: T-2X3 GlassBASE: 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: ($\mu\text{fds.}$) ●

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

RATINGS - ABSOLUTE MAXIMUM VALUES:

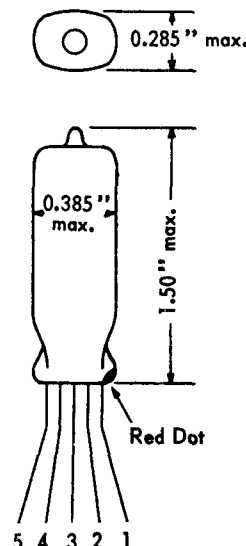
Filament Voltage (dc)	1.25 $\pm$ 20% volts
Plate Voltage	90 volts
Plate Current	5 ma.

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 $I_b = 50 \mu\text{a.}$	-3.5 volts

● No shield.

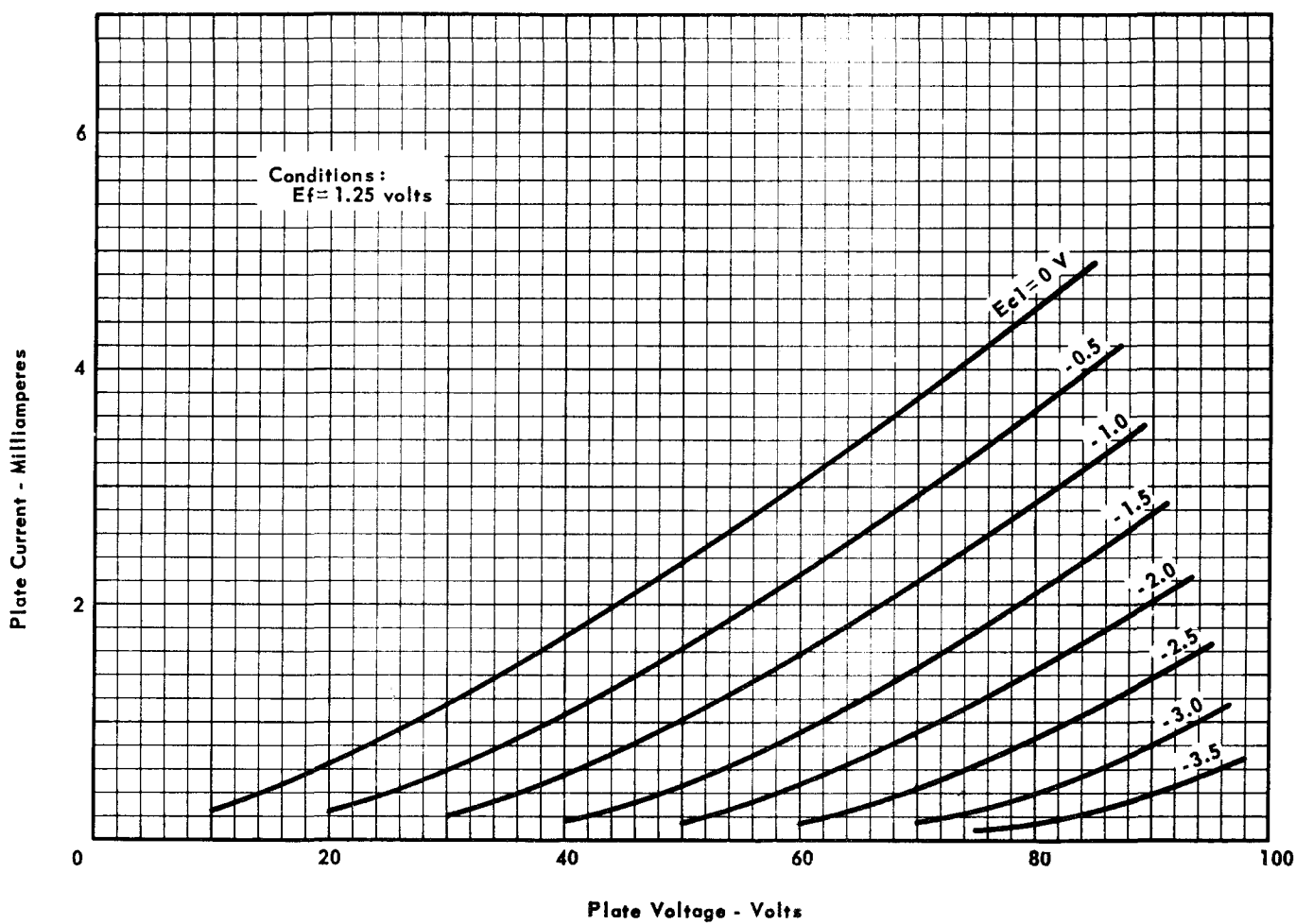
▲ Grid Resistor = 5 megohms.





SUBMINIATURE TRIODE

PLATE CURRENT VS. PLATE VOLTAGE



RAYTHEON MANUFACTURING COMPANY

RECEIVING TUBE AND SEMICONDUCTOR OPERATIONS