



Excellence in Electronics

**TYPE  
CK5972**

The CK5972 is a filament type, fully-shielded remote cut-off pentode of subminiature construction designed for service in RF applications to 100 megacycles requiring economy of space, weight, and battery drain. 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 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 #1
Lead 2 Grid #2	Lead 5 Filament,
Lead 3 Filament, negative; Grid #3; shield ■	positive; Grid #3 ■

**MOUNTING POSITION:** Any

**ELECTRICAL DATA**

**DIRECT INTERELECTRODE CAPACITANCES:** ( $\mu\text{fds.}$ )

Grid to Plate	0.01 max.
Input	4.3
Output	4.1

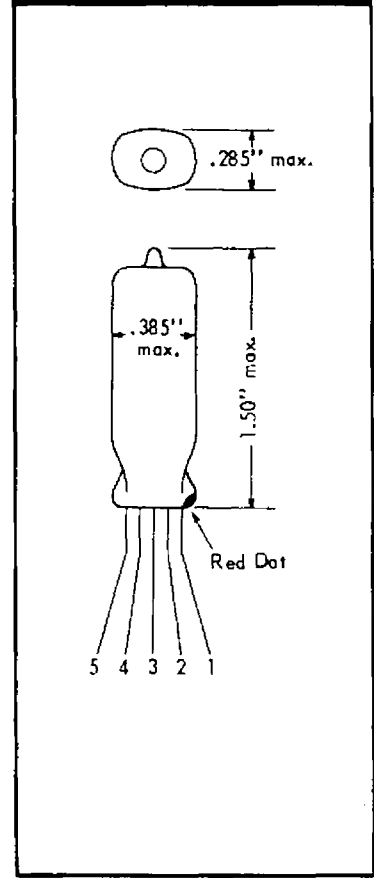
**RATINGS - ABSOLUTE MAXIMUM VALUES:**

Filament Voltage (dc)	1.25 $\pm$ 20% volts
Plate Voltage	75 volts
Grid #2 Supply Voltage	75 volts

**CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:**

Filament Voltage (dc)	1.25	1.25 volts
Filament Current	60	60 ma.
Plate Voltage	45	67.5 volts
Grid #2 Voltage	45	67.5 volts
Grid #1 Voltage ♦	0	0 volts
Plate Resistance (approx.)	0.8	1.0 megohms
Transconductance	1100	1300 $\mu\text{mhos}$
Plate Current	1.5	2.5 ma.
Grid #2 Current	0.4	0.8 ma.
Grid #1 Voltage (approx.) at $I_b = 20 \mu\text{a.}$	-8	-12 volts

- Bulb is entirely coated with a metallic shield connected to Lead 3.
- ♦ Grid resistor = 2 megohms.
- Grid #3 is composed of two deflector plates, one being connected to Lead 3 and the other to Lead 5.



from JETEC release #1961, July 1, 1957

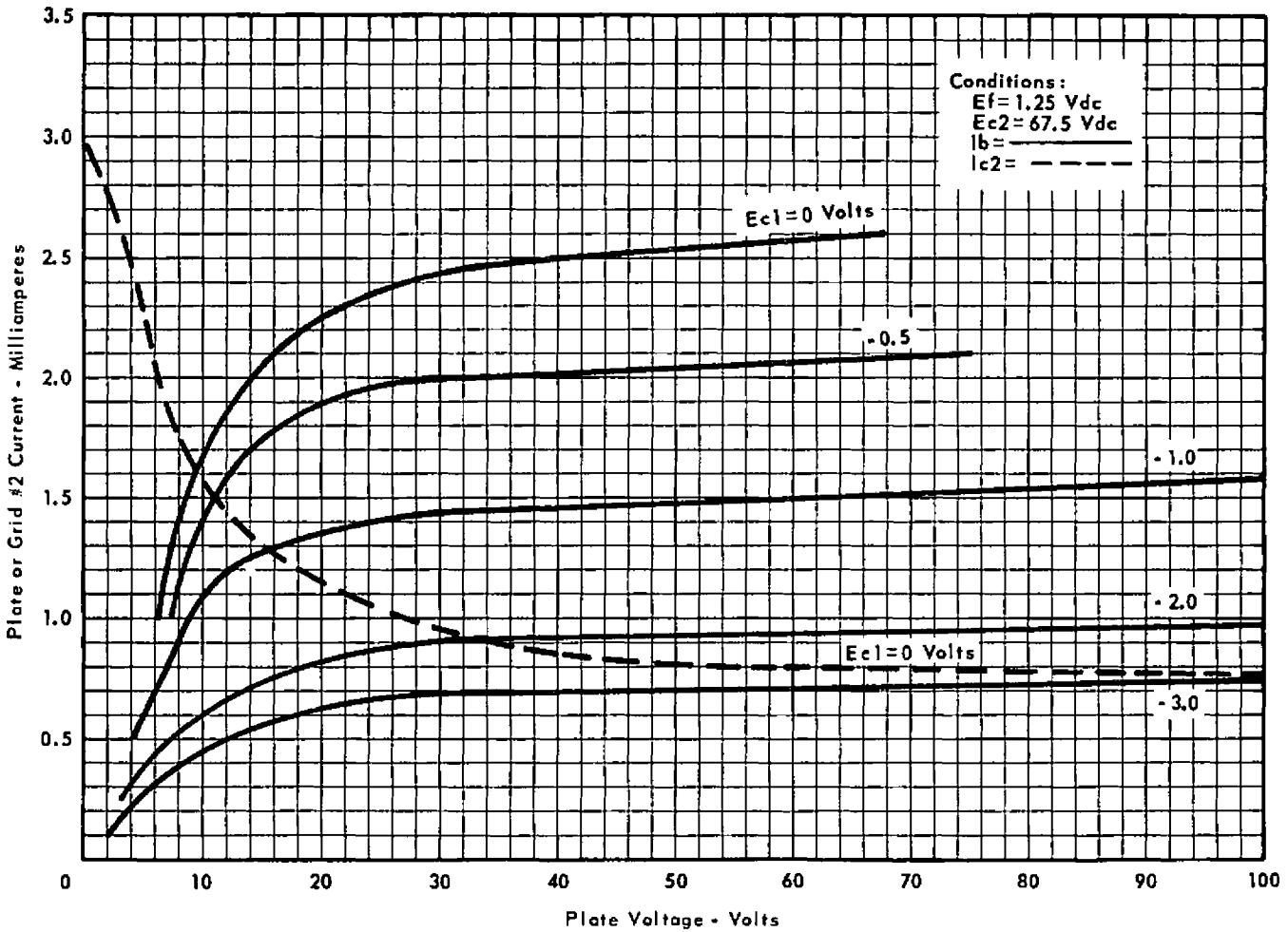
Tentative Data

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SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS

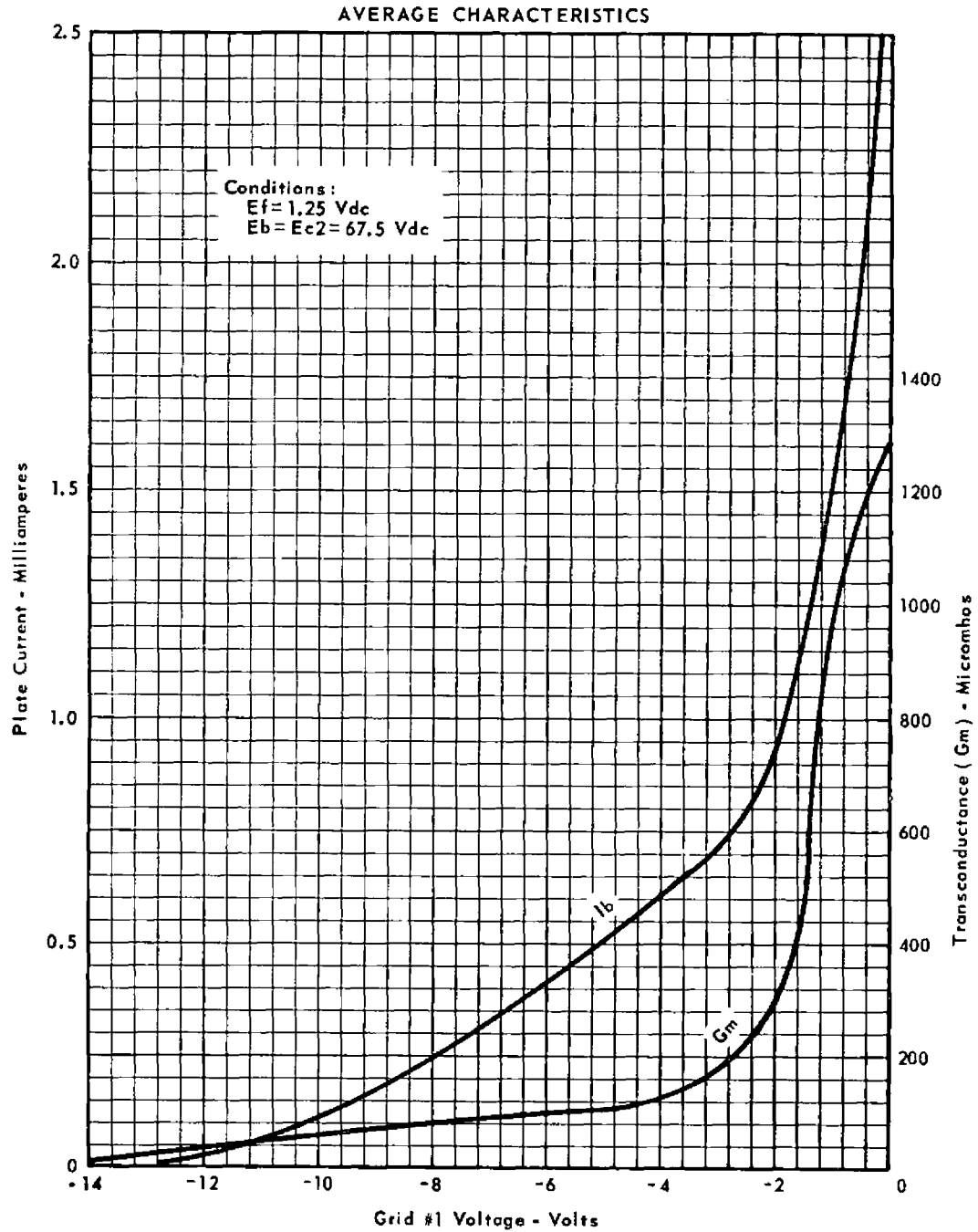


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