

*Excellence in Electronics***TYPE
CK5678**

The CK5678 is a filament type, fully shielded, subminiature pentode designed for service in RF applications 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 DATAENVELOPE: 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, positive;
Lead 3 Filament, negative; Shield;	Grid #3 ■
Grid #3 ■	

MOUNTING POSITION Any**ELECTRICAL DATA DATA**DIRECT INTERELECTRODE CAPACITANCES: ($\mu\text{f}ds.$)

Grid to Plate
Input
Output

0.01 max.
3.3
3.8

RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc)
Plate Voltage
Grid #2 Voltage

$1.25 \pm 20\%$ volts
90 volts
67.5 volts

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

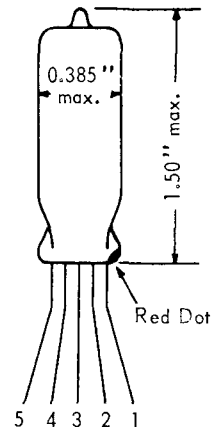
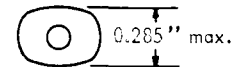
Filament Voltage (dc)	1.25
Filament Current	50
Plate Voltage	45
Grid #2 Voltage	45
Grid #1 Voltage ♦	0
Plate Resistance	1.2
Transconductance	820
Plate Current	0.8
Grid #2 Current	0.22
Grid #1 Voltage (approx.) for $G_m = 10 \mu\text{mhos}$	-3

1.25 volts
50 ma.
67.5 volts
67.5 volts
0 volts
1.0 meg.
1100 μmhos
1.8 ma.
0.48
-4 volts

● Bulb is entirely coated with a metallic shield connected to Lead 3.

■ Grid #3 is comprised of two separate deflector plates, one of which is connected to lead 3 and the other to lead 5.

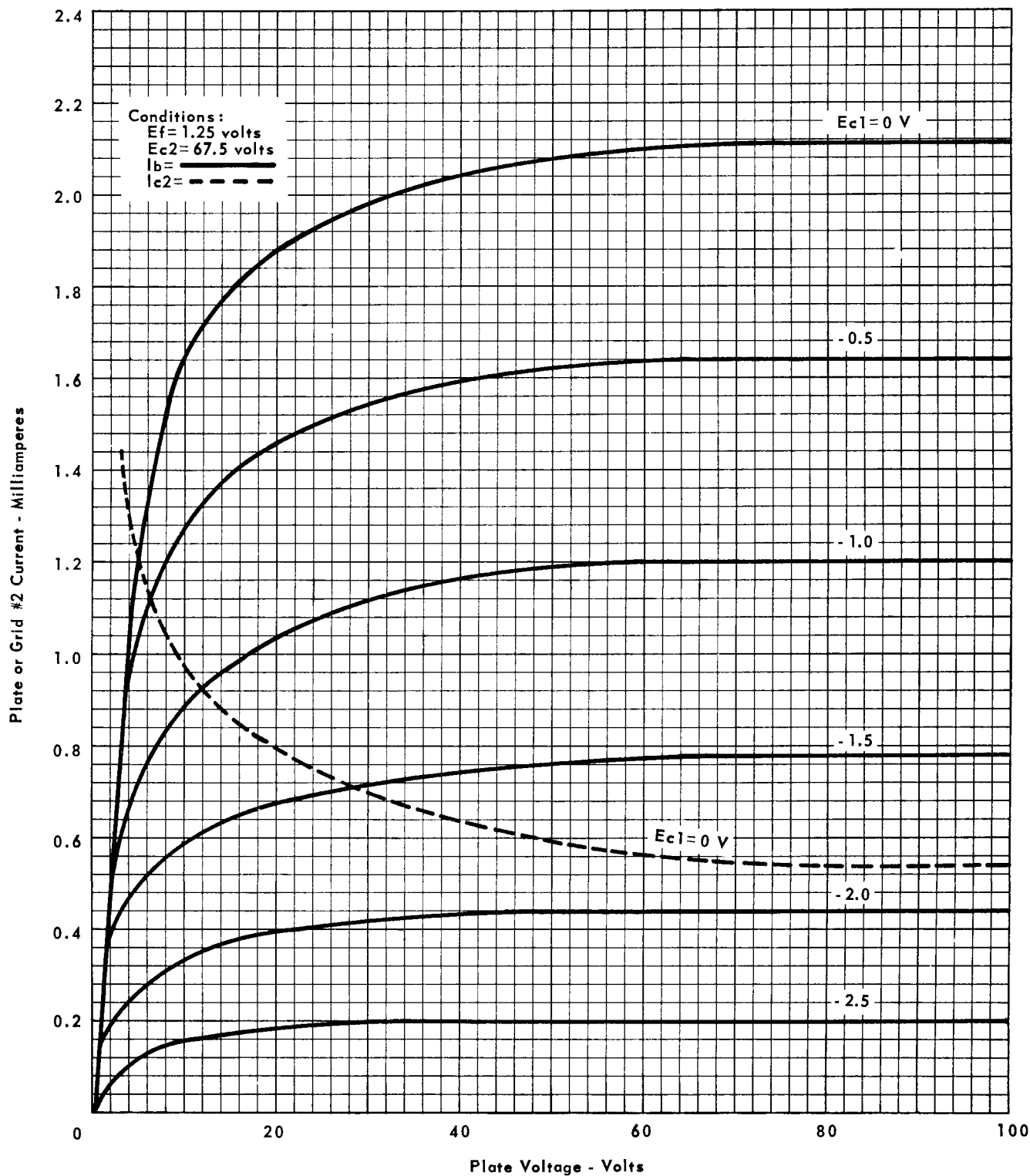
♦ Grid resistor = 5 megohms.





SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS

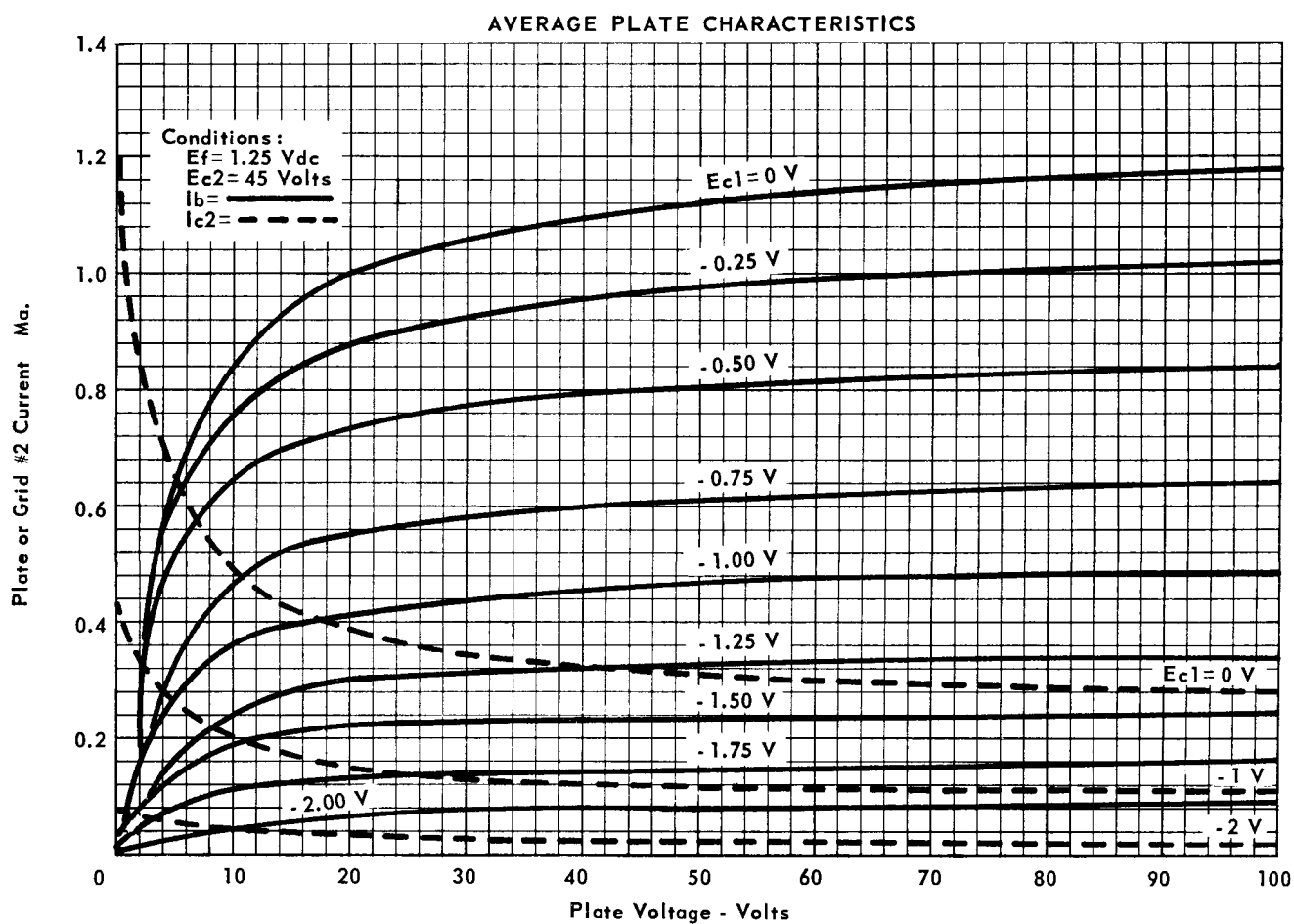


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RECEIVING AND CATHODE RAY TUBE OPERATIONS



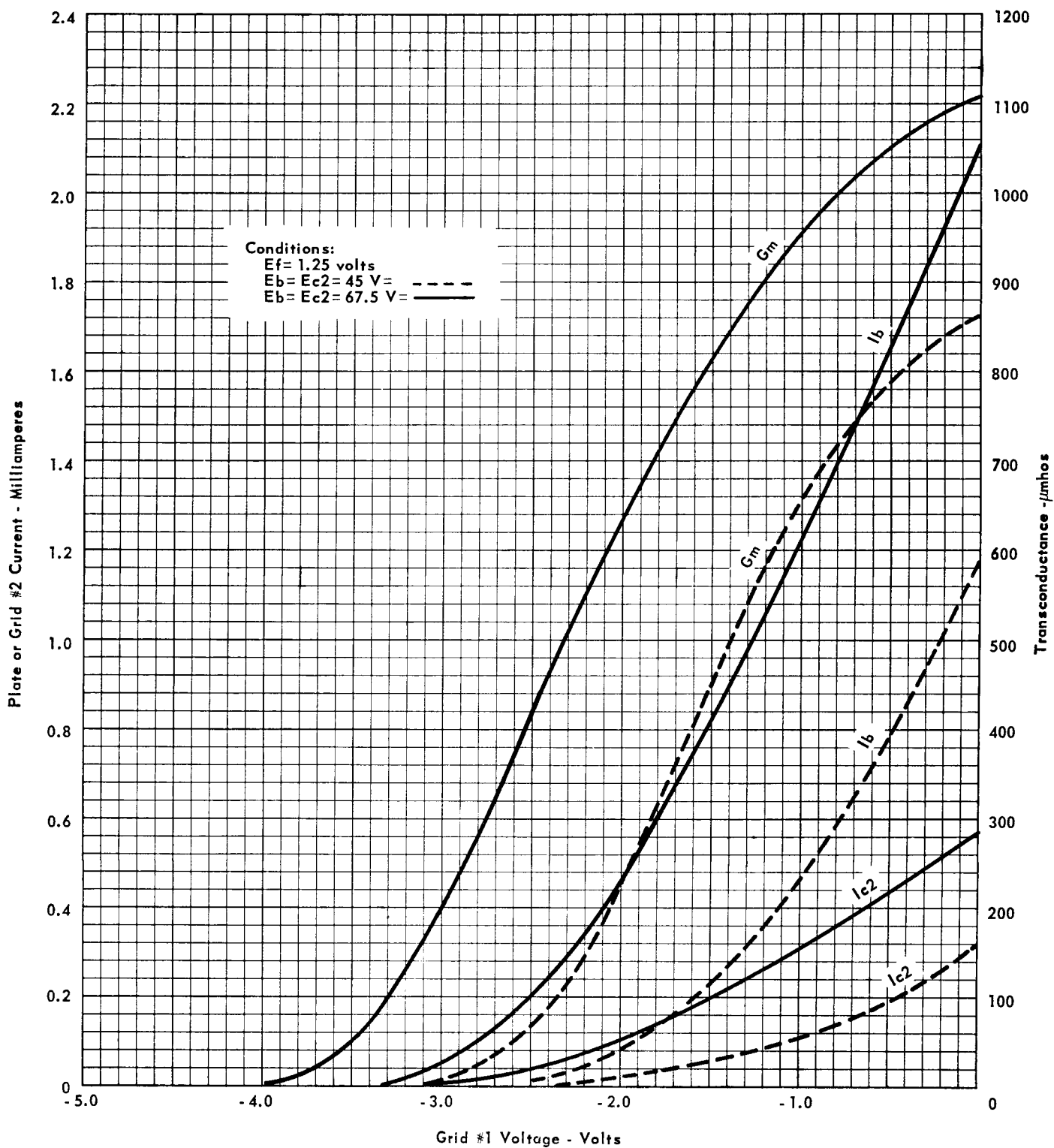
SUBMINIATURE PENTODE





SUBMINIATURE PENTODE

AVERAGE CHARACTERISTICS



RAYTHEON MANUFACTURING COMPANY
 RECEIVING AND CATHODE RAY TUBE OPERATIONS



SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS
(Triode Connected)