



Excellence in Electronics

TYPE CK512AX

The CK512AX is a filament type pentode of subminiature construction designed primarily for use in resistance coupled audio frequency and direct coupled amplifiers. Typical applications are wearable or portable instruments. The tube features low battery drain, long life, small size and low microphonic level. 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 2 Grid #2; Lead 3 Filament, Positive; Grid #3; Lead 4 Grid #1; Lead 5 Filament, Negative; Grid #3

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (uufds.)\*

Table with 2 columns: Capacitance type and value (e.g., Grid to Plate: 0.10 max., Input: 2.3, Output: 1.5)

RATINGS - ABSOLUTE MAXIMUM VALUES:

Table with 2 columns: Rating type and value (e.g., Filament Voltage: 0.625 ± 20% volts, Plate Voltage: 25 volts, Cathode Current: 0.1 ma.)

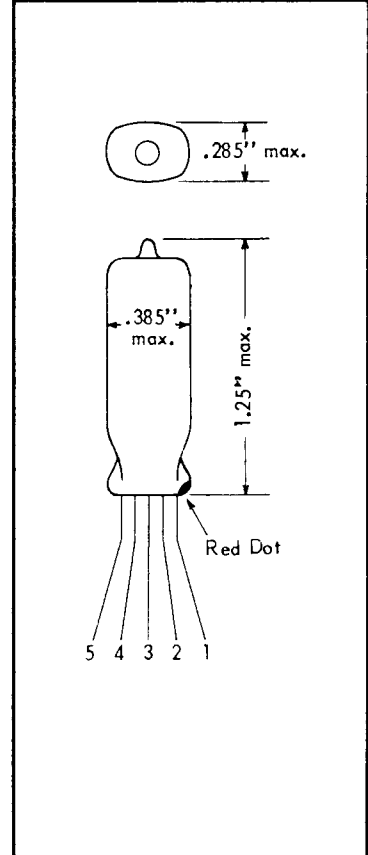
AVERAGE CHARACTERISTICS:

Table with 2 columns: Characteristic type and value (e.g., Filament Voltage: 0.625 volts, Filament Current: 20 ma., Plate Voltage: 15 volts, Grid #1 Voltage: -1.0 volt, Transconductance: 105 μmhos)

TYPICAL OPERATION - RESISTANCE COUPLED AUDIO FREQUENCY AMPLIFIER:

Table with 5 columns: Parameter, First Stage, Second Stage, and values (e.g., Filament Voltage: 0.625, Plate and Grid #2 Supply Voltage: 15, 22.5, etc.)

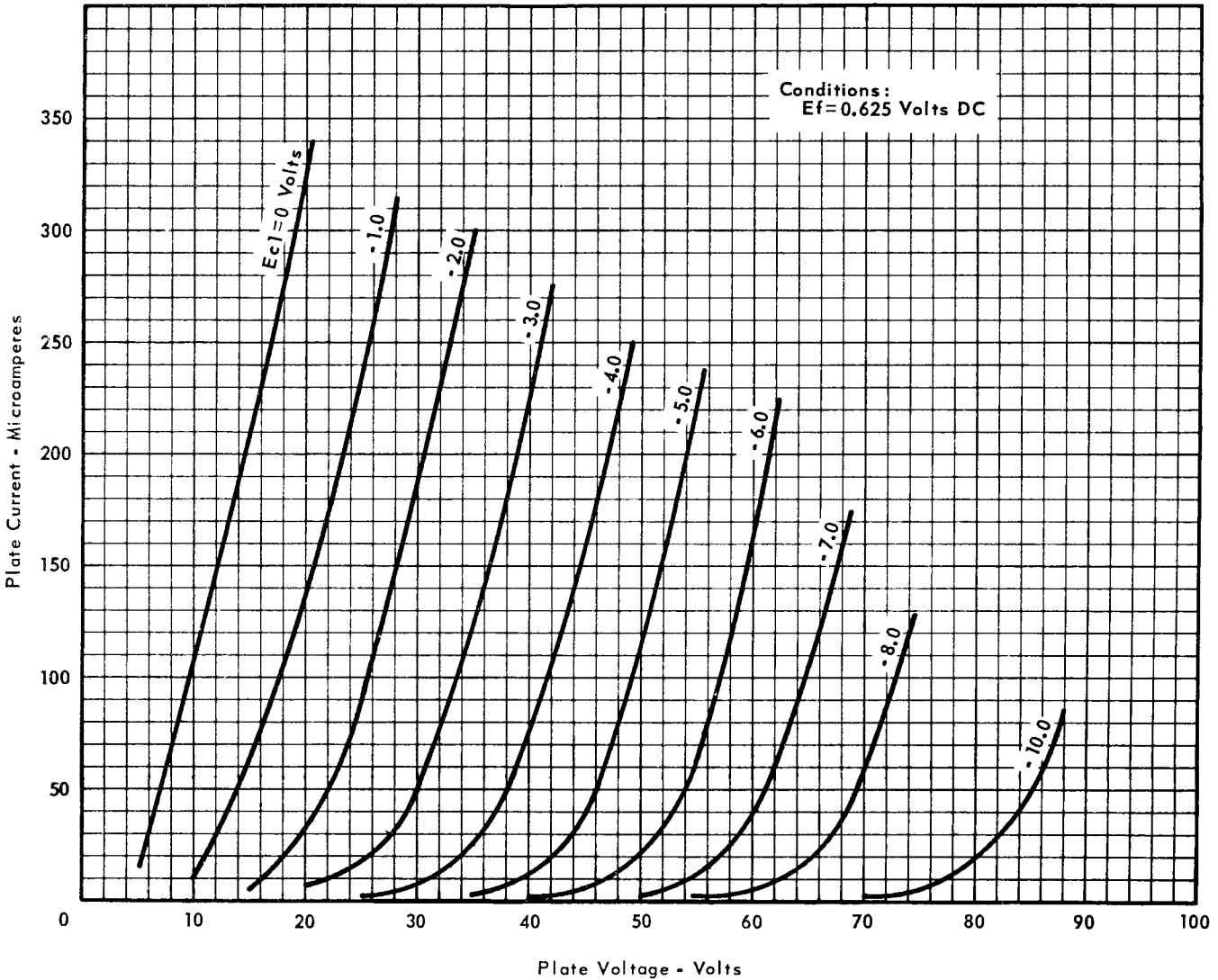
- \* With no external Shield.
▲ Control grid should be returned through approximately 5 to 22 megohms to negative filament or bias voltage.
◆ The values of voltage gain are quoted for a coupled load of 5 megohms, zero source impedance, and a 5 megohm grid resistor.
● Grid #3 is comprised of two deflector plates, one being connected to Lead 3 and the other to Lead 5.





SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS  
(Triode Connected)

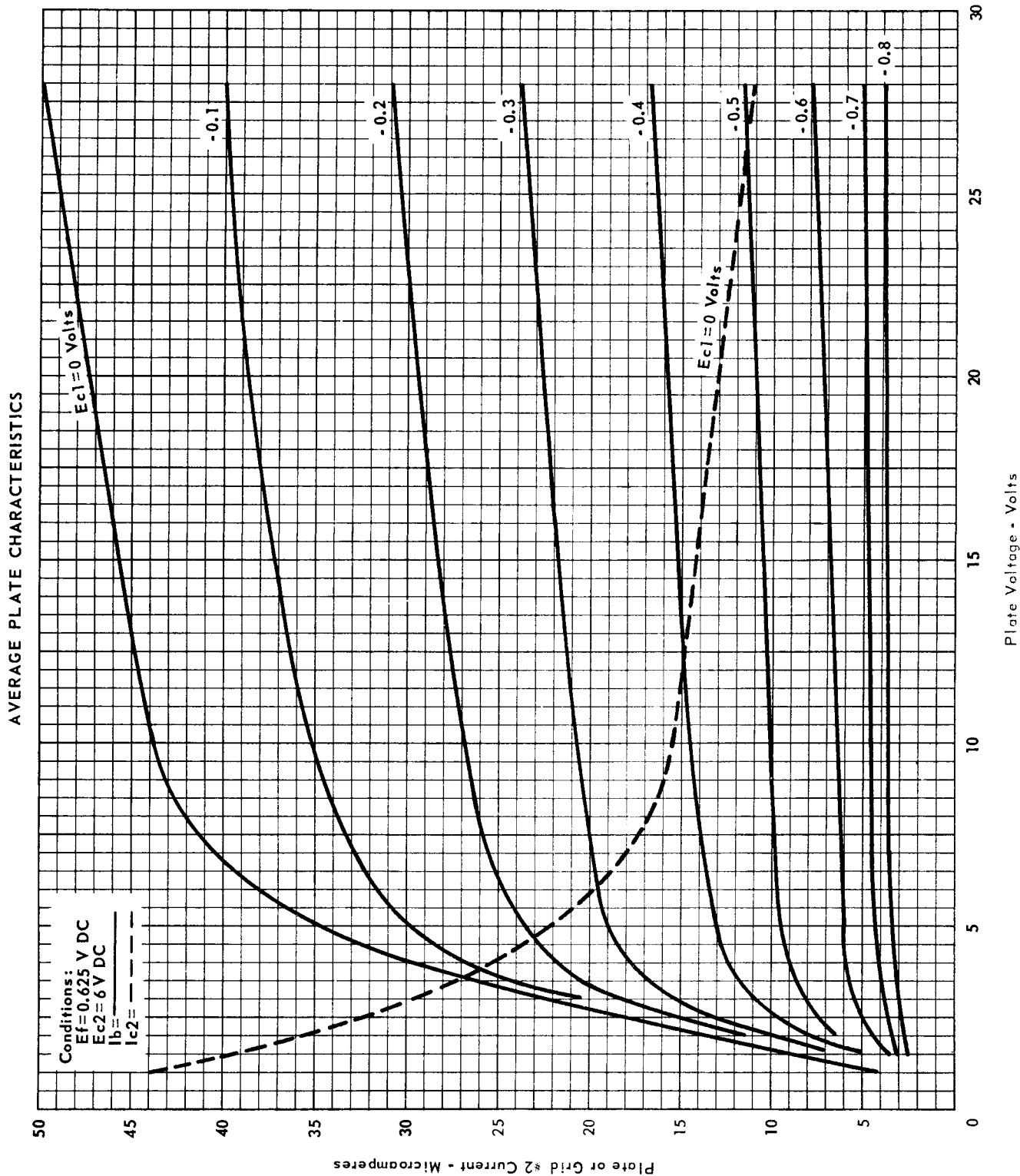


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RECEIVING AND CATHODE RAY TUBE OPERATIONS



SUBMINIATURE PENTODE

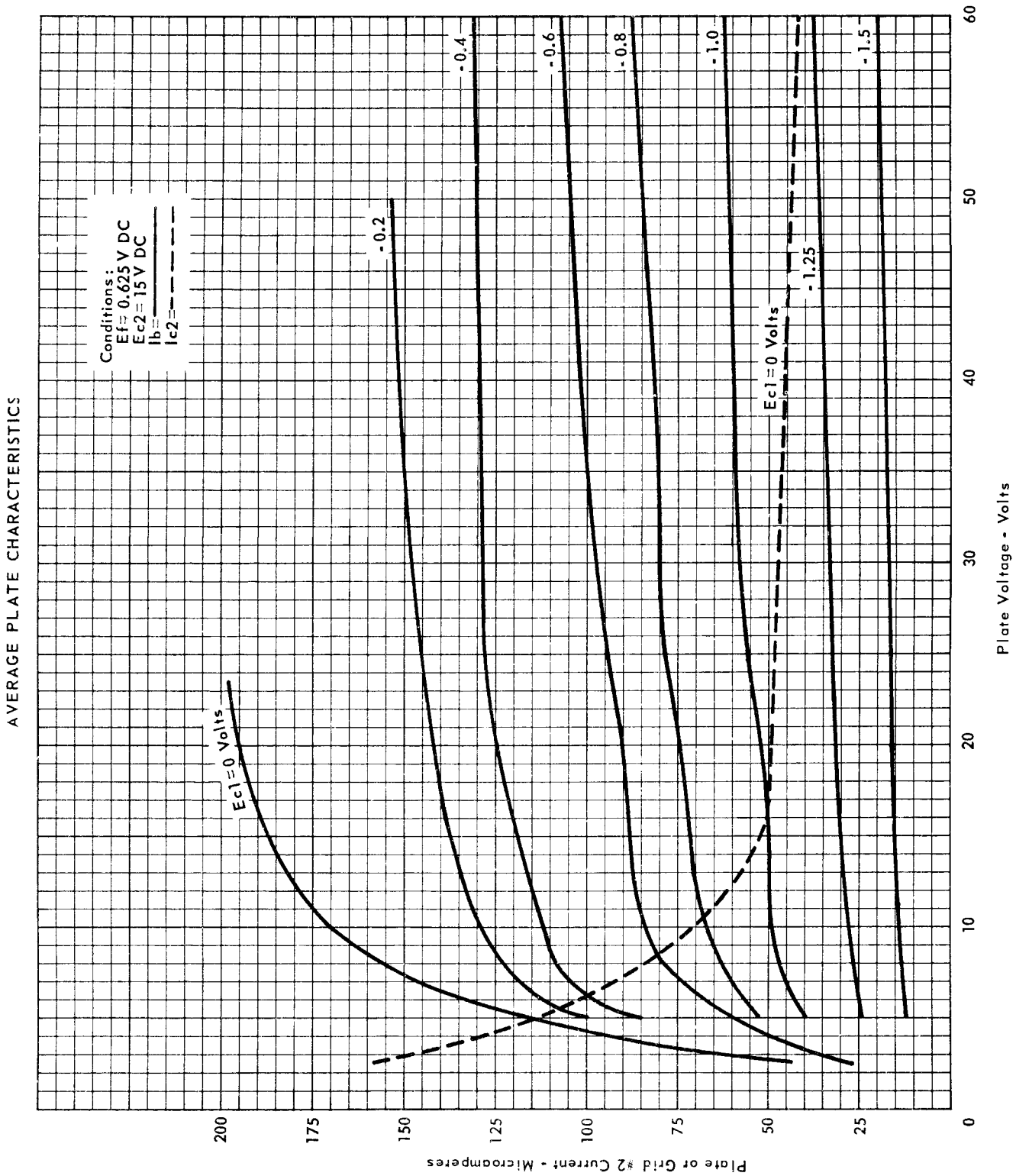


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SUBMINIATURE PENTODE

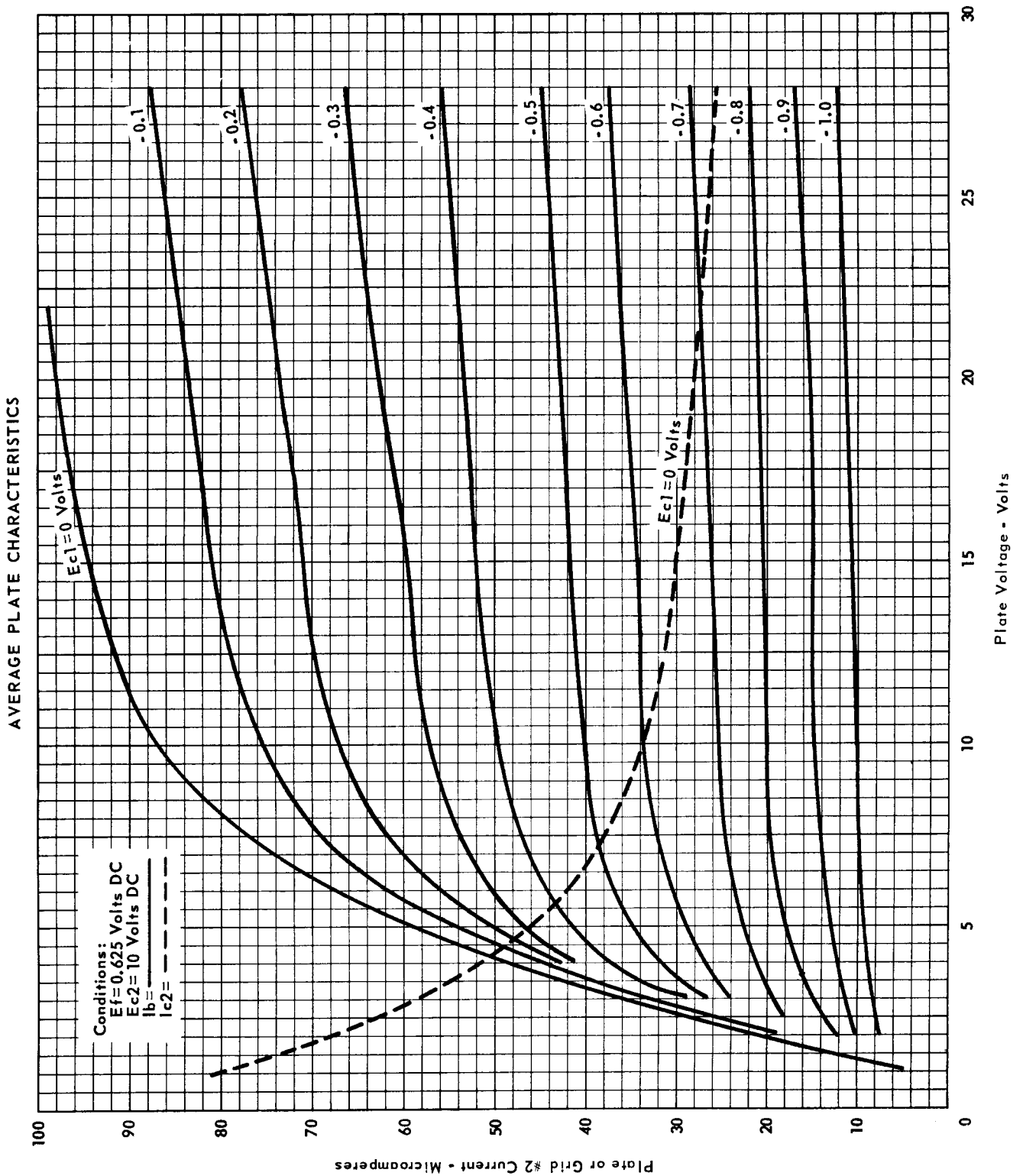


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NEWTON 58, MASS.