

PHILIPS

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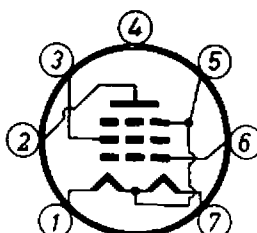
OUTPUT PENTODE

Physical Specifications

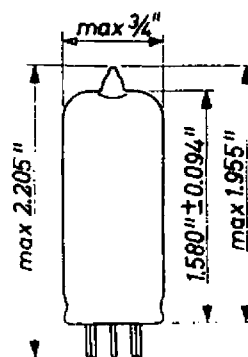
Filament	Coated
Base	Miniature button 7-pin
Bulb	T5½
Maximum overall length	2.205"
Maximum seated height	1.955"
Bulb length excluding tip	1.580" ± 0.094"
Maximum diameter	3/4"
Mounting position	any
Basing connections - JETEC basing designation	6BX

- Pin 1 - filament (+)
Pin 2 - plate
Pin 3 - grid No.2
Pin 4 - not connected
Pin 5 - grid No.3 and filament centre tap (-)
Pin 6 - grid No.1
Pin 7 - filament (+)

Bottom view
of base



Tube outline



General Electrical Data

Filament data

Pins No.5 (-) and (1+7) (+)	
Filament voltage	1.4 volts
Filament current	50 ma

Direct Interelectrode Capacitances

Plate to all other electrodes	4.4 μF
Grid No.1 to all other electrodes	4.9 μF
Grid No.1 to plate	max. 0.3 μF

3C4**PHILIPS**Ratings (Design center values)

Battery voltage	max. 90 volts ¹⁾
Plate voltage	max. 90 volts
Plate dissipation	max. 0.6 watt
Grid No.2 voltage	max. 90 volts
Grid No.2 dissipation	max. 0.2 watt
Cathode current (without input signal)	max. 2x3.1 ma
Grid current starting point. Grid No.1 voltage when grid No.1 current = +0.3 μ amp	max. -0.2 volt
Grid No.1 circuit resistance	2 megohms
Filament voltage	min. 1.1 volts max. 1.6 volts

Operating Characteristics

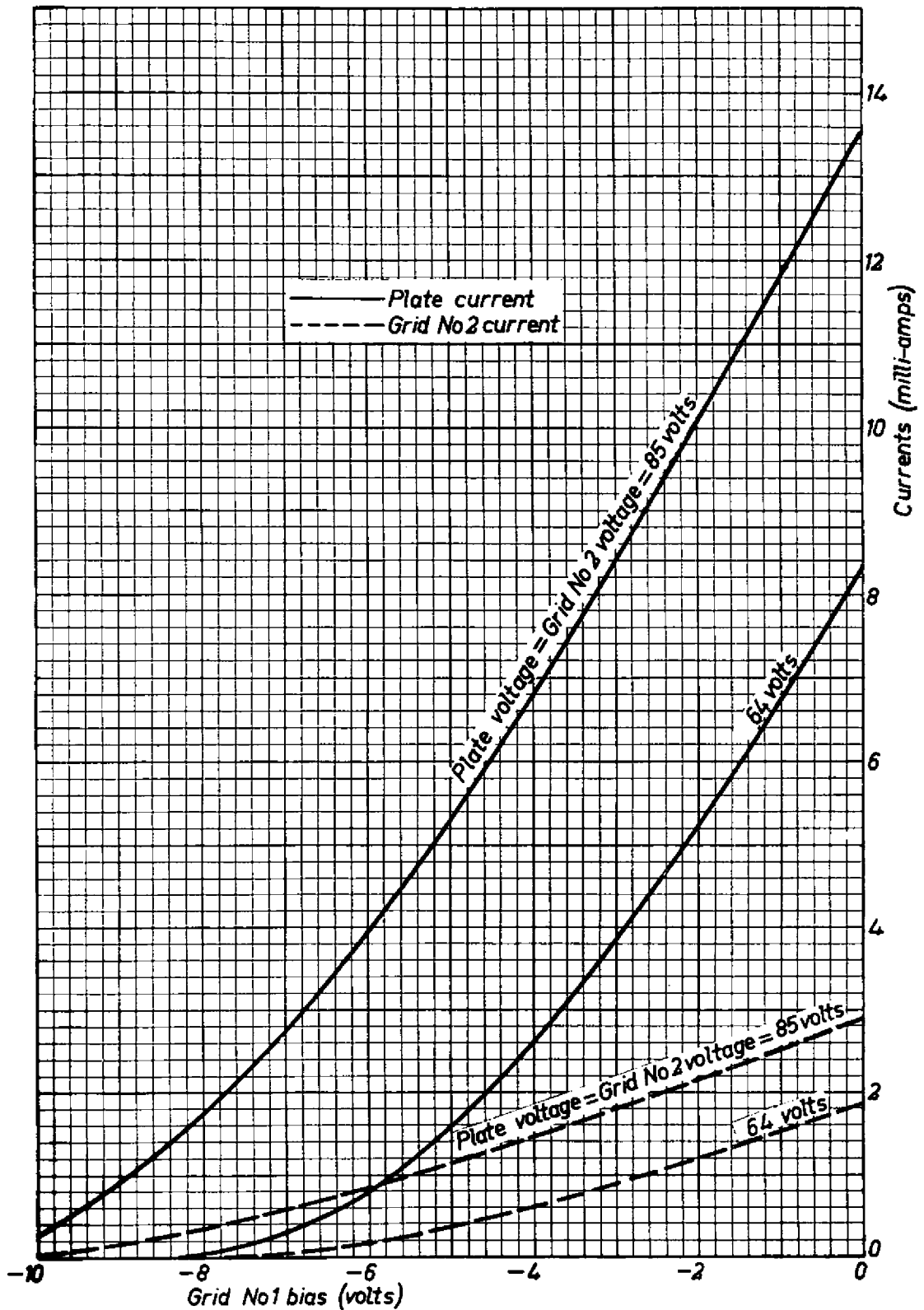
Plate voltage ²⁾	64	85 volts
Grid No.2 voltage	64	85 volts
Grid No.1 voltage	-3.3	-5.2 volts
Plate current	3.5	5.0 ma
Grid No.2 current	0.75	1.1 ma
Transconductance	1250	1350 micromhos
Plate resistance	0.125	0.125 megohm
Amplification factor of grid No.2 with respect to grid No.1	7.6	7.8
Load resistance	15 000	13 000 ohms
Output at a distortion of 10 %	100	200 milliwatts
Grid No.1 A.C. voltage at a distortion of 10 %	3	4 volts, rms
Grid No.1 A.C. voltage at an output of 50 m watts	1.7	1.5 volts, rms

¹⁾ The absolute permissible maximum of the battery voltage is 110 volts.

²⁾ Based on a supply voltage of 67.5 or 90 volts decreased with the negative bias.

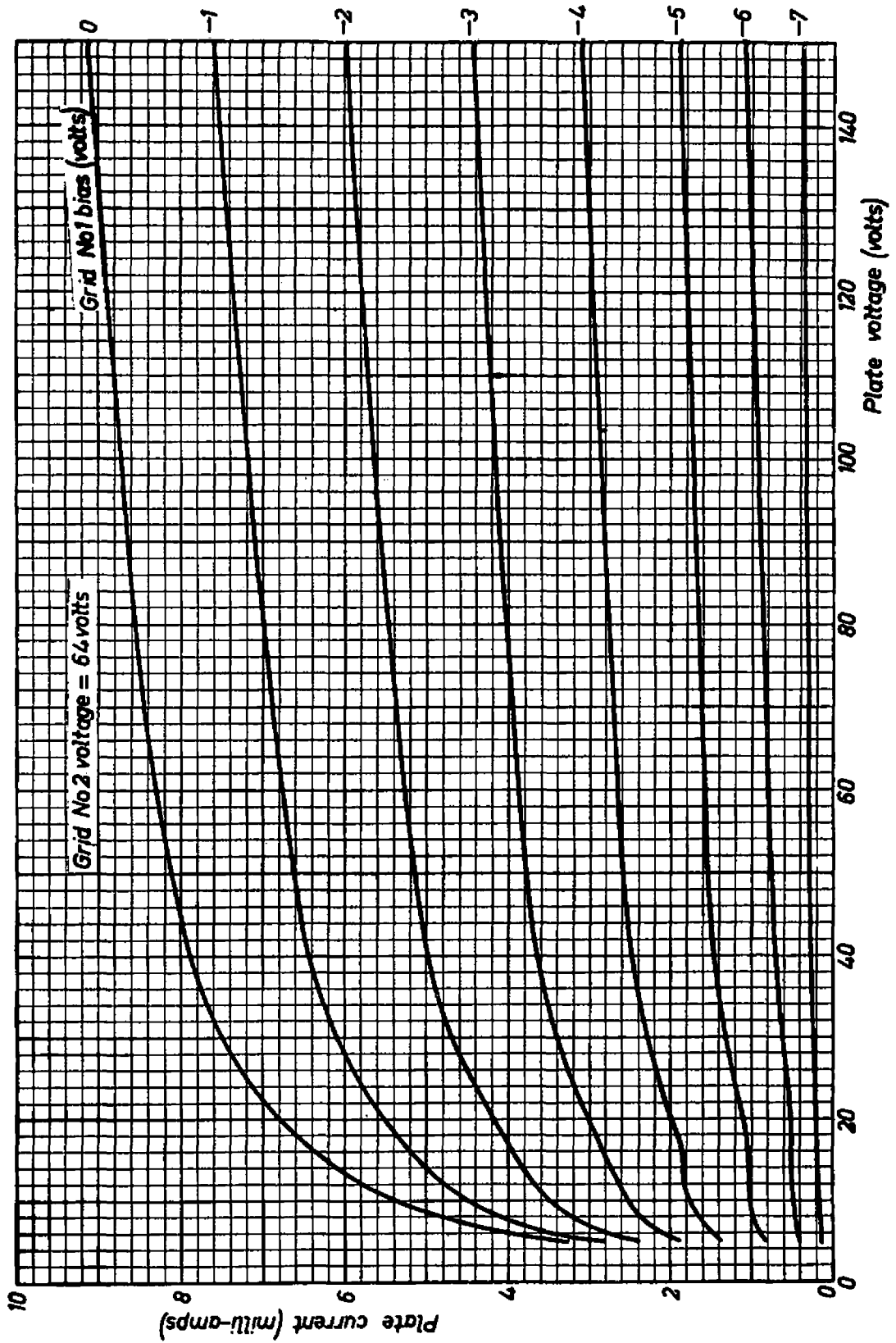
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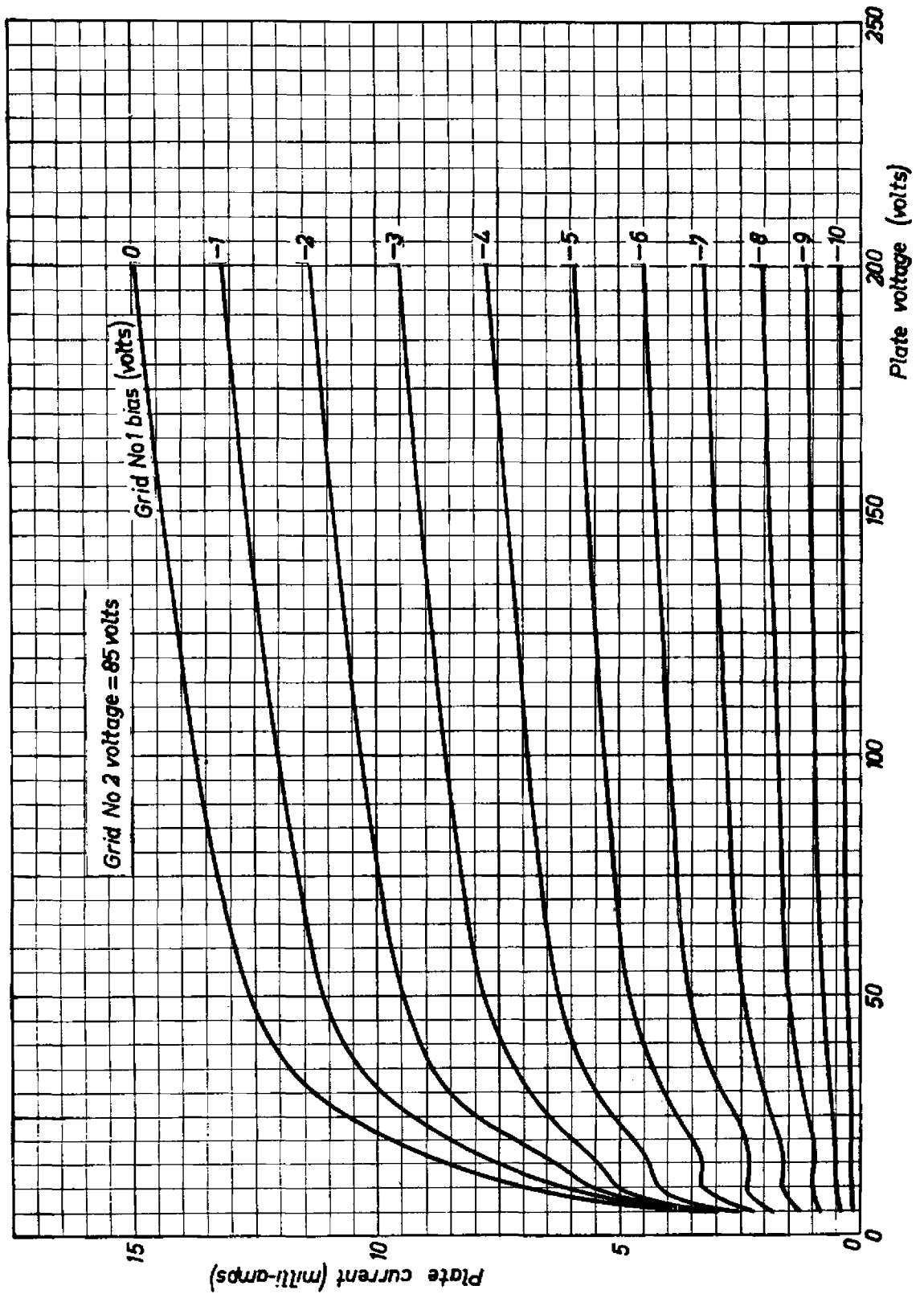
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