

PHILIPS

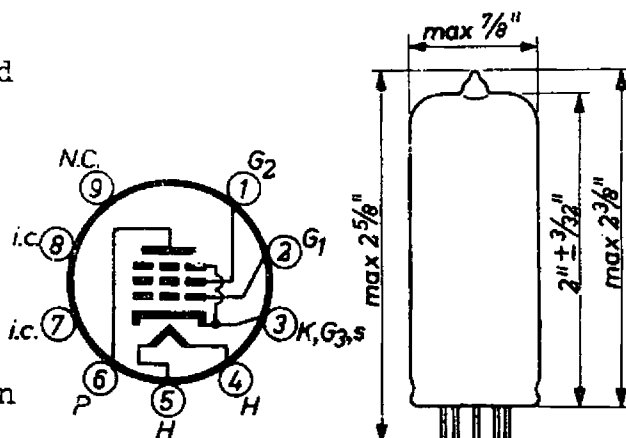
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VARIABLE MU PENTODE

Physical Specifications

Cathode	Coated unipotential
Base	Small button noval 9-pin
Bulb	T6 $\frac{1}{2}$
Maximum overall length	2 $\frac{5}{8}$ "
Maximum seated height	2 $\frac{3}{8}$ "
Bulb length excluding tip	2 $\pm$ $\frac{3}{32}$ "
Maximum diameter	$\frac{7}{8}$ "
Mounting position	any
Basing connections - JETEC basing designation	9AZ

- Pin 1 - Grid No.2
- Pin 2 - Grid No.1
- Pin 3 - Cathode, grid
No.3 and
internal
shield
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Plate
- Pin 7 - Internal
connection
- Pin 8 - Internal
connection
- Pin 9 - Not connected



General Electrical Data

Heater voltage	6.3 volts
Heater current	0.2 amp

Direct Interelectrode Capacitances

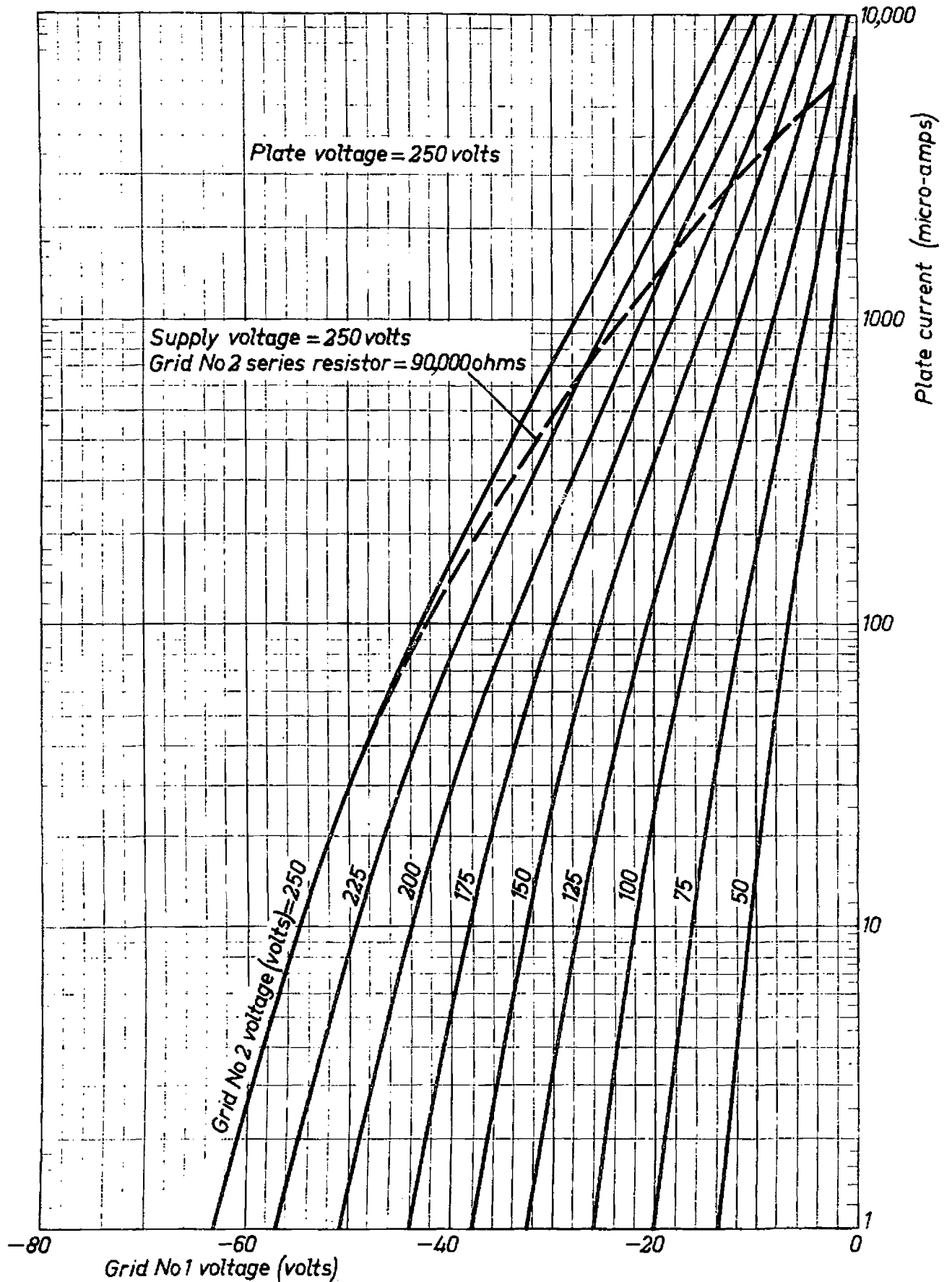
Grid No.1 to all other elements	4.9 μ F
Plate to all other elements	5.5 μ F
Plate to grid No.1	max. 0.002 μ F
Grid No.1 to heater	max. 0.1 μ F

Maximum ratings (design center values)

Plate voltage (without current)	max. 550 volts
Plate voltage	max. 300 volts
Plate dissipation	max. 2 watts
Grid No.2 voltage (without current)	max. 550 volts
Grid No.2 voltage (plate current less than 3 ma)	max. 300 volts
Grid No.2 voltage (plate current = 6 ma)	max. 125 volts
Grid No.2 dissipation	max. 0.3 watt.
Cathode current	max. 10 ma
Grid No.1 current starting point.	
Grid No.1 voltage at grid No.1 current = + 0.3 μ amp	max. -1.3 volts
Grid No.1 circuit resistance	max. 3 megohms
Heater-cathode voltage	max. 100 volts
External heater-cathode resistance	20,000 ohms

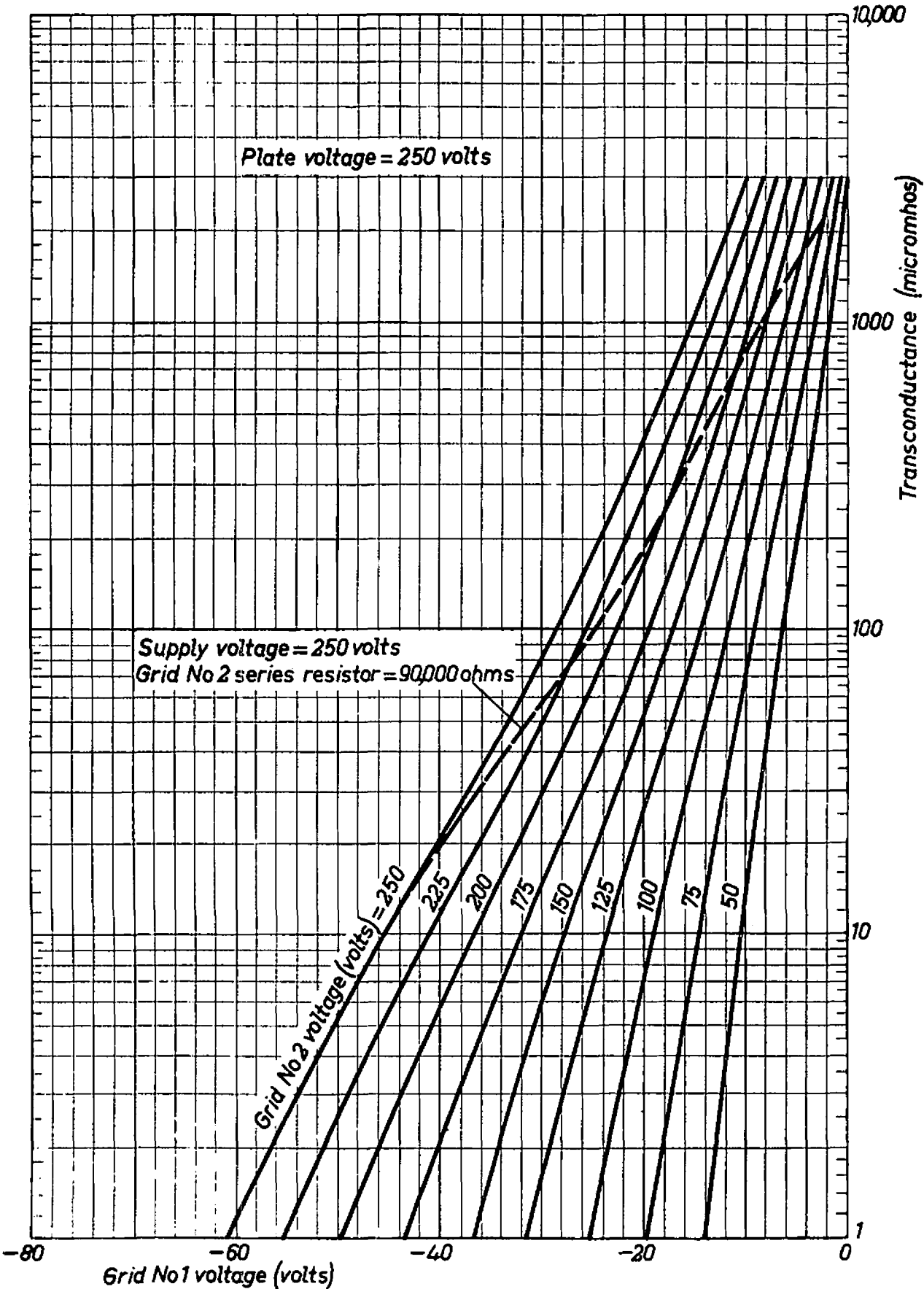
Operating characteristics as R.F. or I.F. amplifier

Plate and supply voltage	250	volts
Grid No.2 series resistor	90,000	ohms
Cathode resistor	325	ohms
Grid No.1 voltage	-2.5	-39 volts
Plate current	6.0	- ma
Grid No.2 current	1.7	- ma
Transconductance	2200	22 micromhos
Plate resistance	1.1	min. 10 megohms
Equivalent noise resistance	6500	- ohms
Amplification factor of grid No.2 with respect to grid No.1	18	-



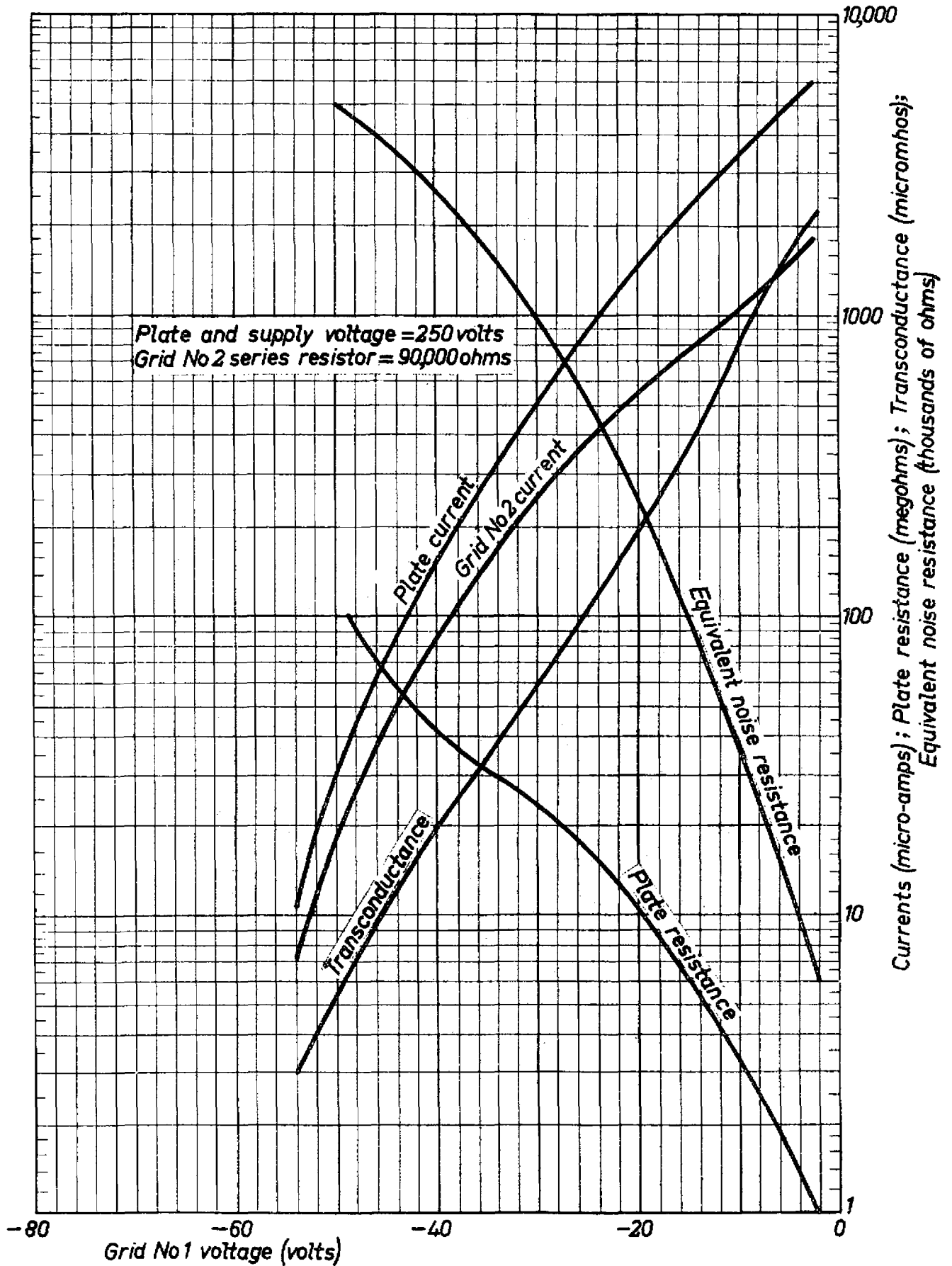
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