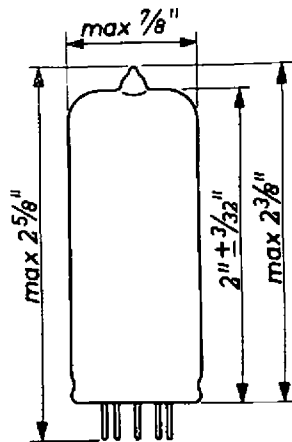


REMOTE CUT-OFF R.F. PENTODE

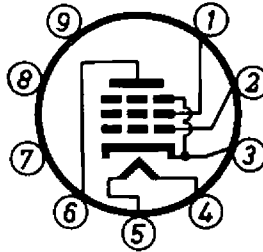
MECHANICAL DATA

Cathode	Coated unipotential
Base	E9-1
Bulb	T6½
RETMA basing designation	9CA 9AZ
Mounting position	any

TUBE OUTLINE



BOTTOM VIEW OF BASE



BASE PIN No.

ELEMENT

1	Grid No.2
2	Grid No.1
3	Cathode, grid No.3, internal shield
4	Heater
5	Heater
6	Plate
7	Internal connection
8	Internal connection
9	No connection

HEATER DATA

Heater voltage	12.6 volts
Heater current	0.1 amp

DIRECT INTERELECTRODE CAPACITANCES

Output capacitance	8.1 μF
Input capacitance	5.1 μF
Grid No.1 to plate	max. 0.002 μF
Grid No.1 to heater	max. 0.05 μF

MAXIMUM RATINGS (Design Center Values)

Plate voltage (without current)	550 volts
Plate voltage	250 volts
Plate dissipation	2.0 watts
Grid No.2 voltage (without current)	550 volts
Grid No.2 voltage (plate current less than 4 mA)	250 volts
Grid No.2 voltage (plate current = 7.2 mA)	150 volts

12AD5

MAXIMUM RATINGS (Design Center Values) continued

Grid No.2 dissipation	0.3 watts
Cathode current	10 mamps
External resistance between grid No.1 and cathode	3 megohms
External resistance between heater and cathode	20,000 ohms
Voltage between heater and cathode	150 volts

OPERATING CHARACTERISTICS AS R.F. OR I.F. AMPLIFIER

A. with sliding grid No.2 voltage

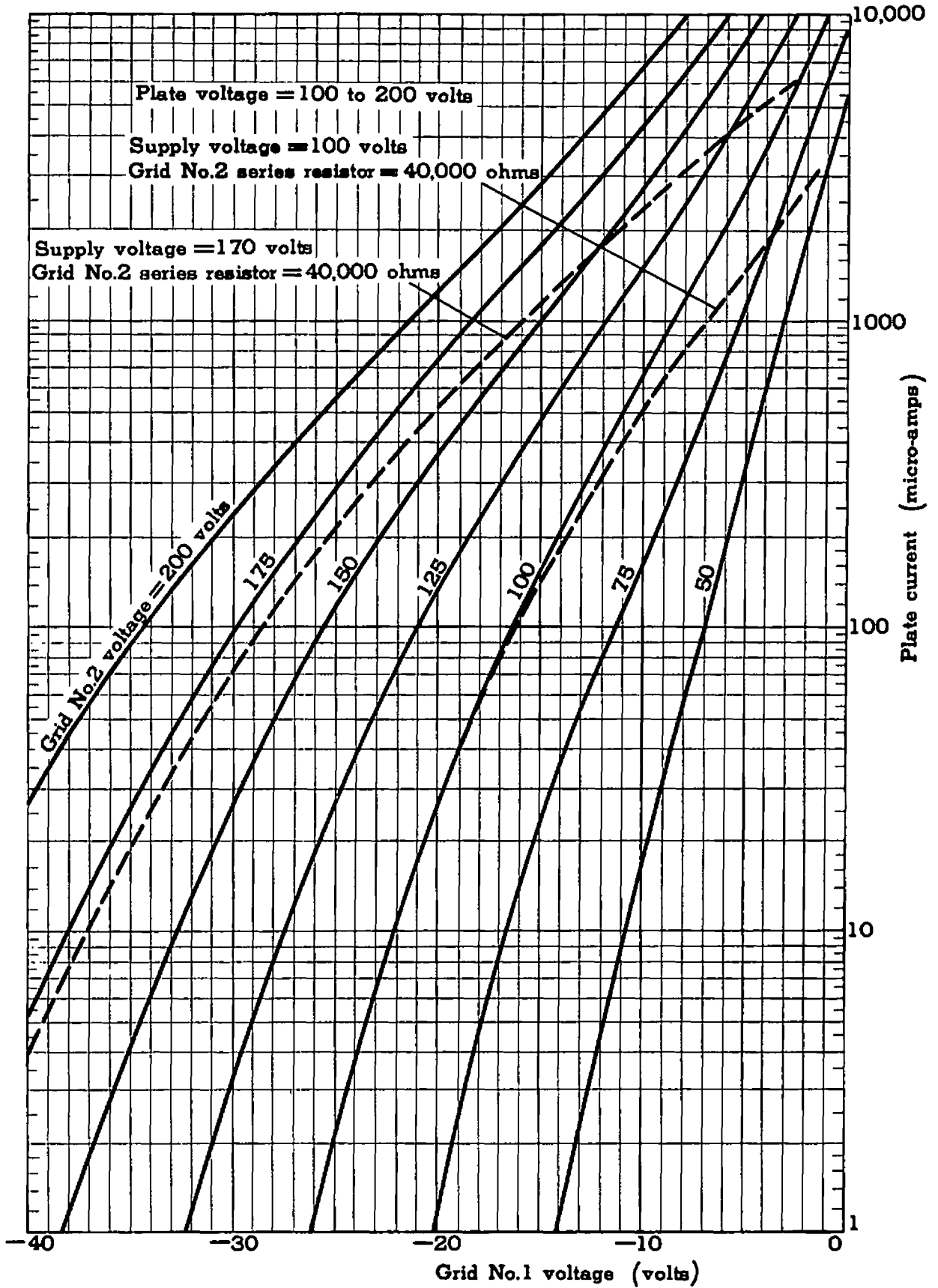
Plate and supply voltage	100	170	volts
Grid No.2 series resistor	40,000	40,000	ohms
Cathode resistor	325	325	ohms
Grid No.1 voltage	-1.4 -17	-2.5 -28	volts
Plate current	3.3 -	6.0 -	mamps
Grid No.2 current	1.0 -	1.75 -	mamps
Transconductance	1900 19	2200 22	μmhos
Plate resistance	0.8 >10	1.0 >10	megohms
Amplification factor of grid No.2 with respect to grid No.1	18 -	18 -	
Equivalent noise resistance	5500 -	6500 -	ohms
Plate and supply voltage		200	volts
Grid No.2 series resistor		40,000	ohms
Cathode resistor		325	ohms
Grid No.1 voltage		-3 -34	volts
Plate current		7.2 -	mamps
Grid No.2 current		2.1 -	mamps
Transconductance		2300 23	μmhos
Plate resistance		1.0 >10	megohms
Amplification factor of grid No.2 with respect to grid No.1		18 -	
Equivalent noise resistance		7000 -	ohms

OPERATING CHARACTERISTICS AS R.F. OR I.F. AMPLIFIER

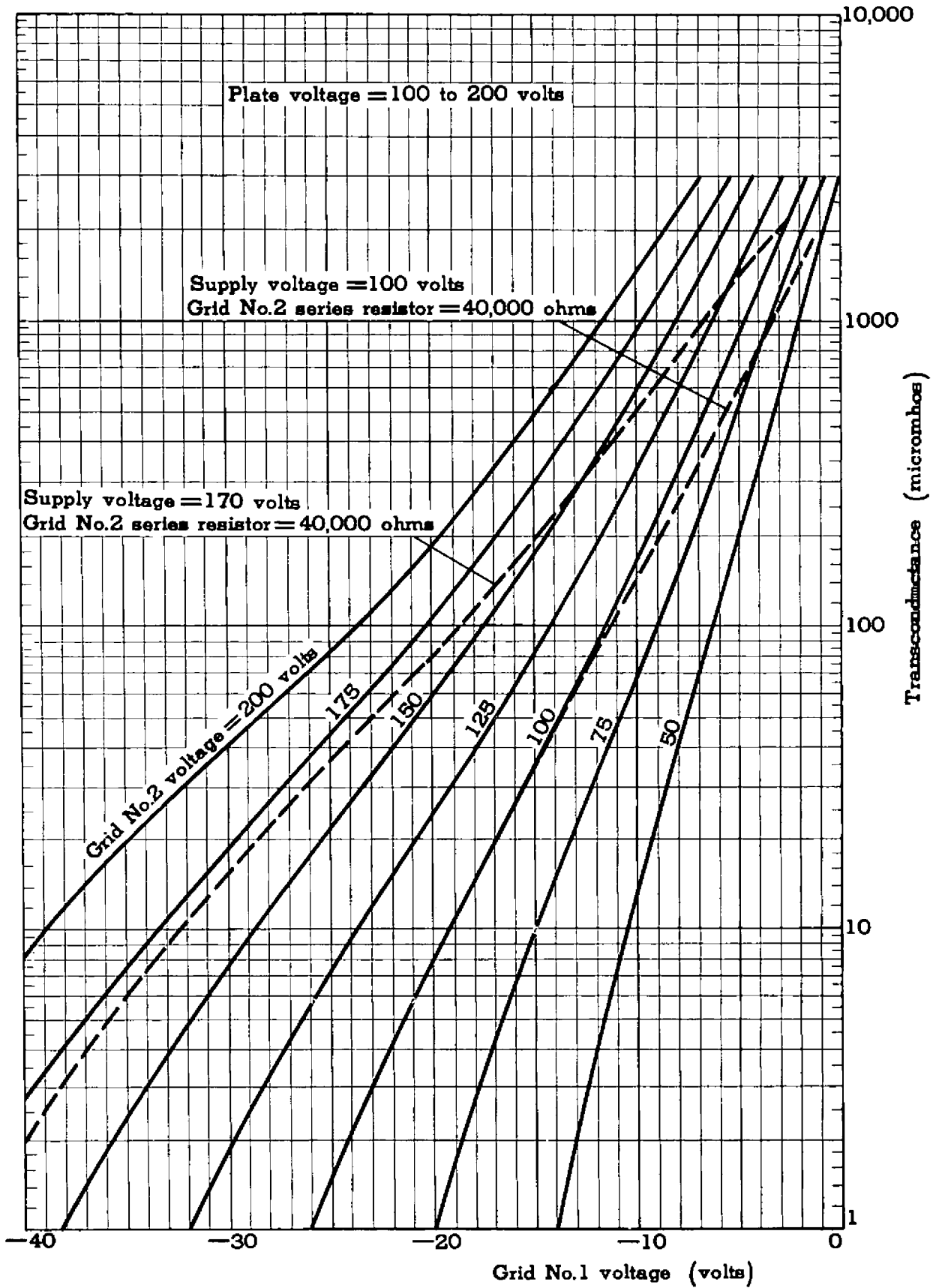
B. with fixed grid No.2 voltage

Plate voltage	100	volts
Grid No.2 voltage	100	volts
Cathode resistor	325	ohms
Grid No.1 voltage	-2.5	-16.5 volts
Plate current	6.0	- mamps
Grid No.2 current	1.75	- mamps
Transconductance	2200	22 μ mhos
Plate resistance	0.6	>10 megohms
Amplification factor of grid No.2 with respect to grid No.1	18	-
Equivalent noise resistance	6500	- ohms

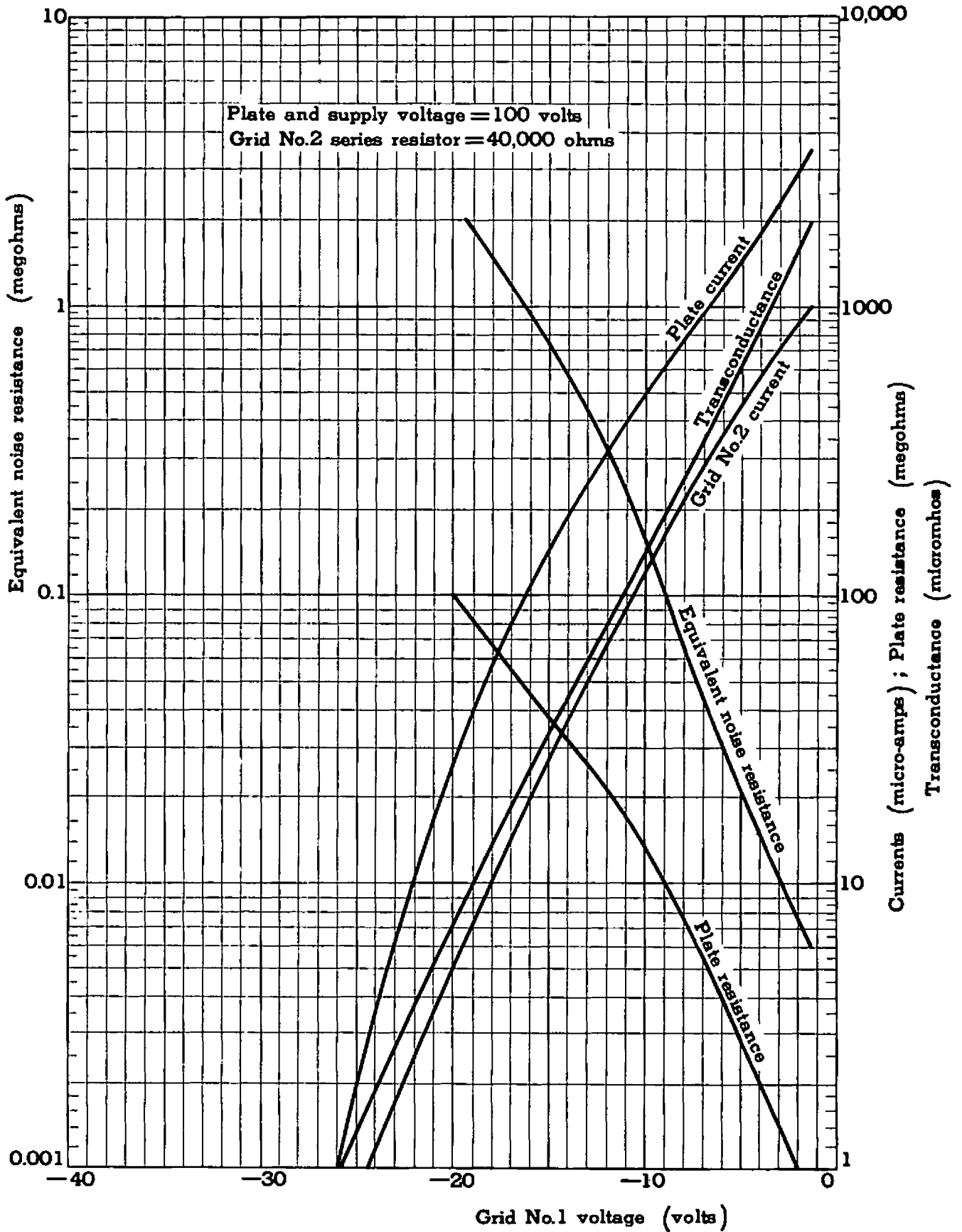
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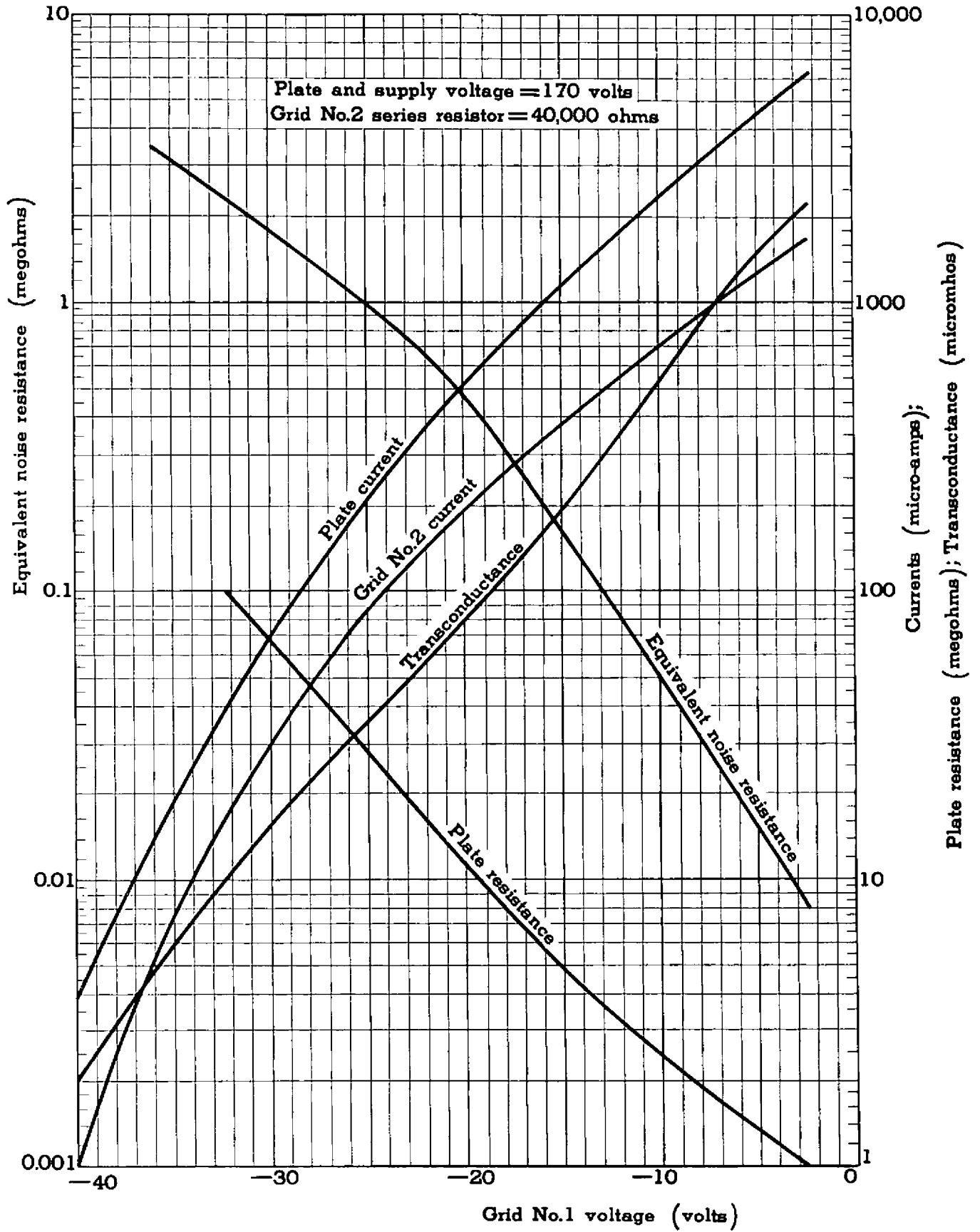
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12AD5



12AD5



12AD5

