

# PHILIPS

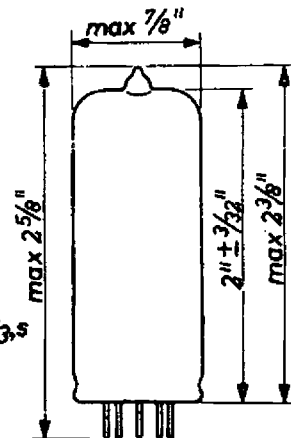
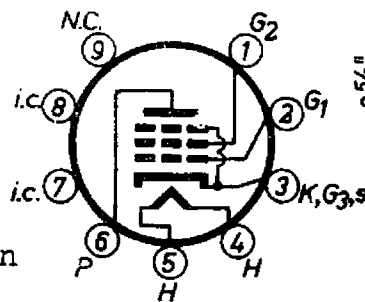
# 6 BH 5

VARIABLE MU PENTODE

Physical Specifications

Cathode	Coated unipotential
Base	Small button noval 9-pin
Bulb	T6½
Maximum overall length	2 5/8"
Maximum seated height	2 3/8"
Bulb length excluding tip	2 ± 3/32"
Maximum diameter	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

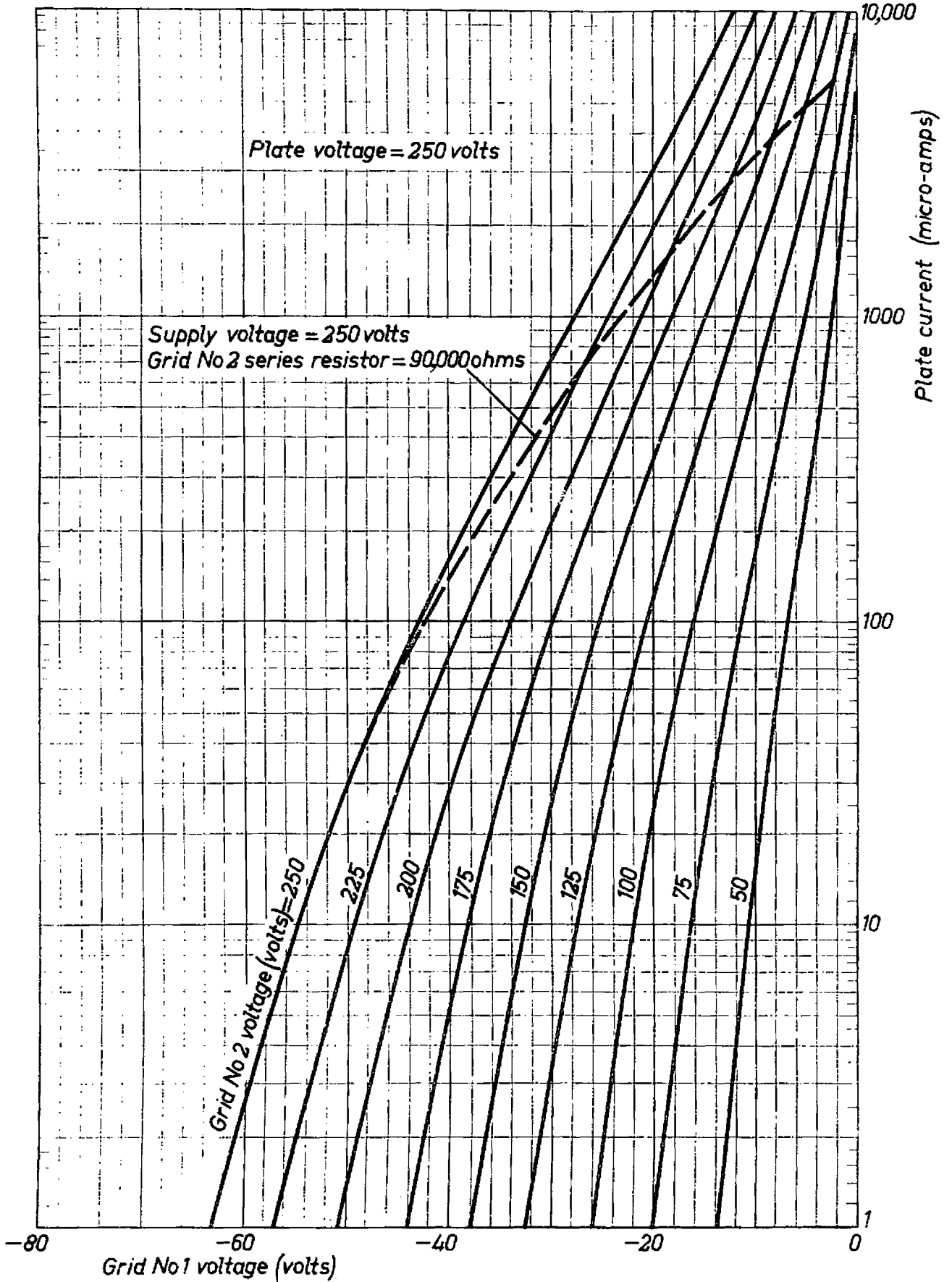
Grid No.1 to all other elements	4.9 μμF
Plate to all other elements	5.5 μμF
Plate to grid No.1	max. 0.002 μμF
Grid No.1 to heater	max. 0.1 μμF

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 $\mu$ 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

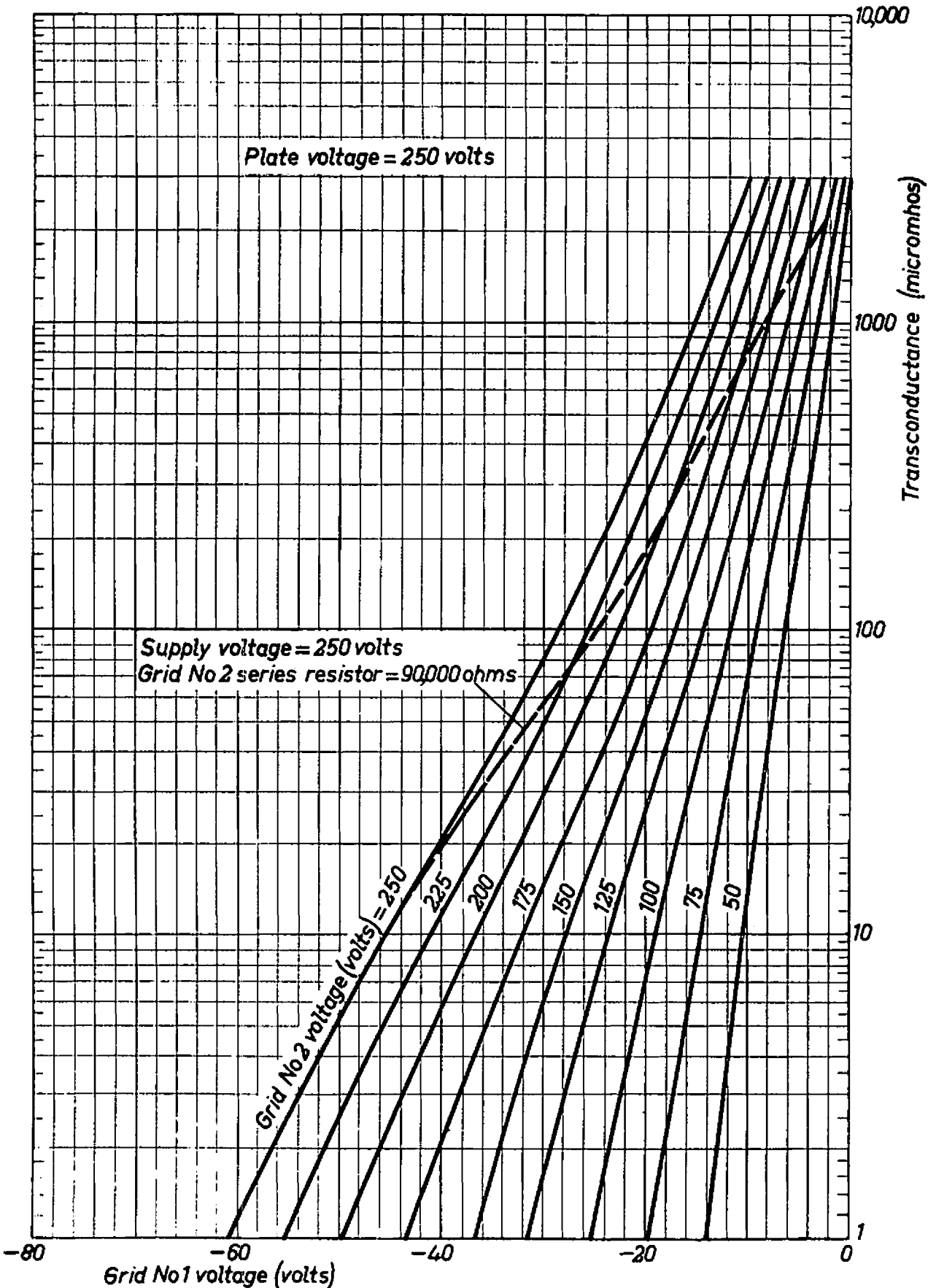
Operating characteristics as R.F. or I.F. amplifier

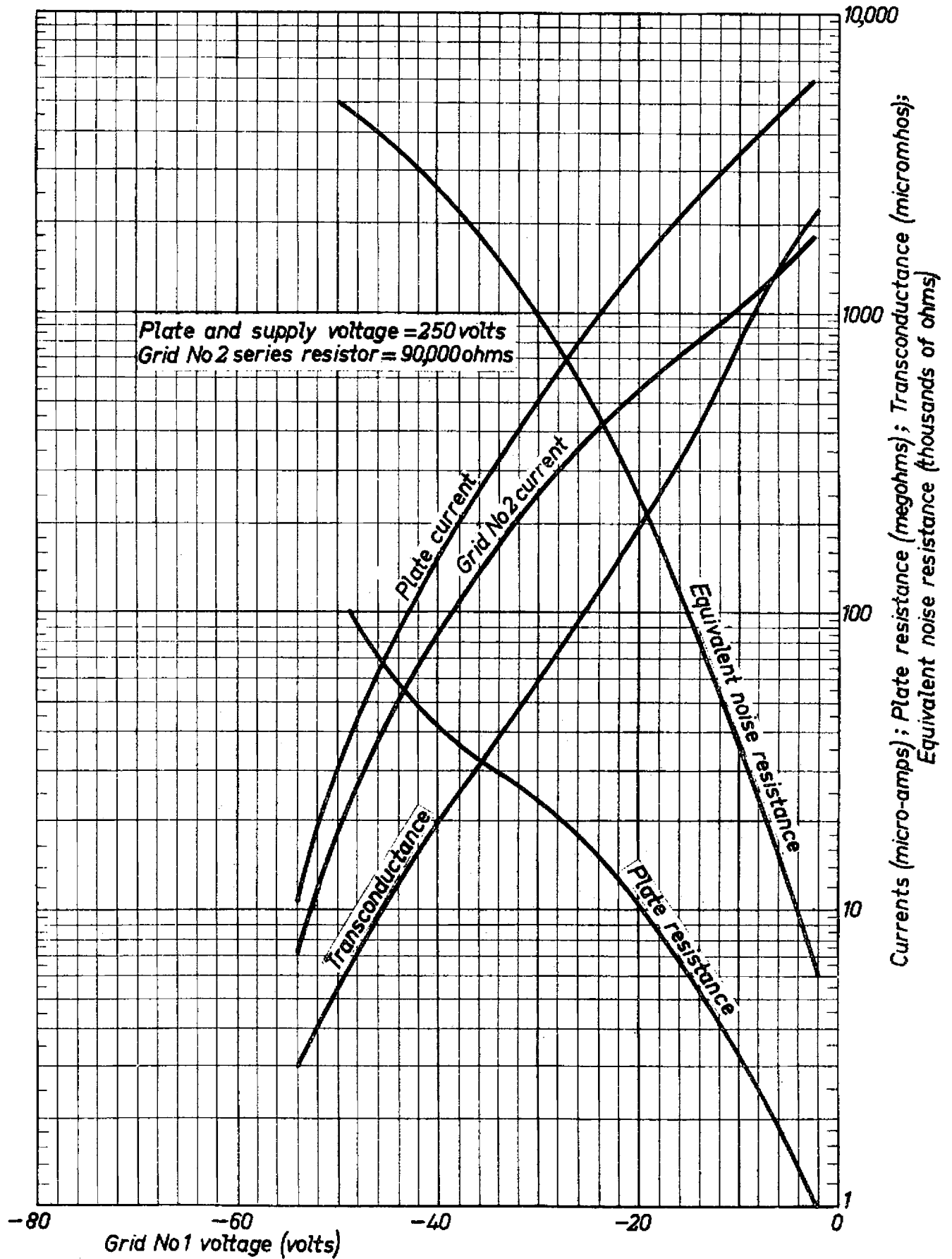
Plate and supply voltage	250	volts
Grid No.2 series resistor	90,000	ohms
Cathode resistor	325	ohms
Grid No.1 voltage	-2.5	-39 volts
Plate current	6.0	ma
Grid No.2 current	1.7	ma
Transconductance	2200	22 micromhos
Plate resistance	1.1	min. 10 megohms
Equivalent noise resistance	6500	ohms
Amplification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



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