

PHILIPS

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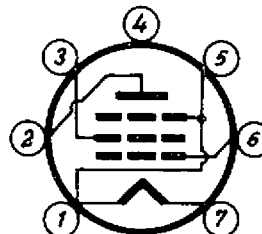
R.F. PENTHODE

Physical Specifications

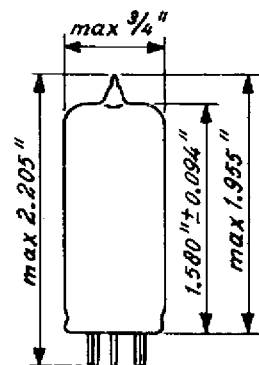
Filament	Coated
Base	Miniature button 7-pin
Bulb	T5 $\frac{1}{2}$
Maximum overall length	2.205"
Maximum seated height	1.955"
Bulb length excluding tip	1.580" $\pm$ 0.094"
Maximum diameter	$\frac{3}{4}$ "
Mounting position	any
Basing connections - JETEC basing designation	7DP

- Pin 1 - filament (-)
grid No.3
internal shield
- Pin 2 - plate
- Pin 3 - grid No.2
- Pin 4 - not connected
- Pin 5 - filament (-)
grid No.3
internal shield
- Pin 6 - grid No.1
- Pin 7 - filament (+)

Bottom view
of base



Tube outline



General Electrical Data

Filament voltage	1.4 volts
Filament current	25 m amps

Direct Interelectrode Capacitances

Grid No.1 to all other elements except plate	3.3 μ F
Plate to all other elements except grid No.1	7.8 μ F
Plate to grid No.1	max. 0.01 μ F

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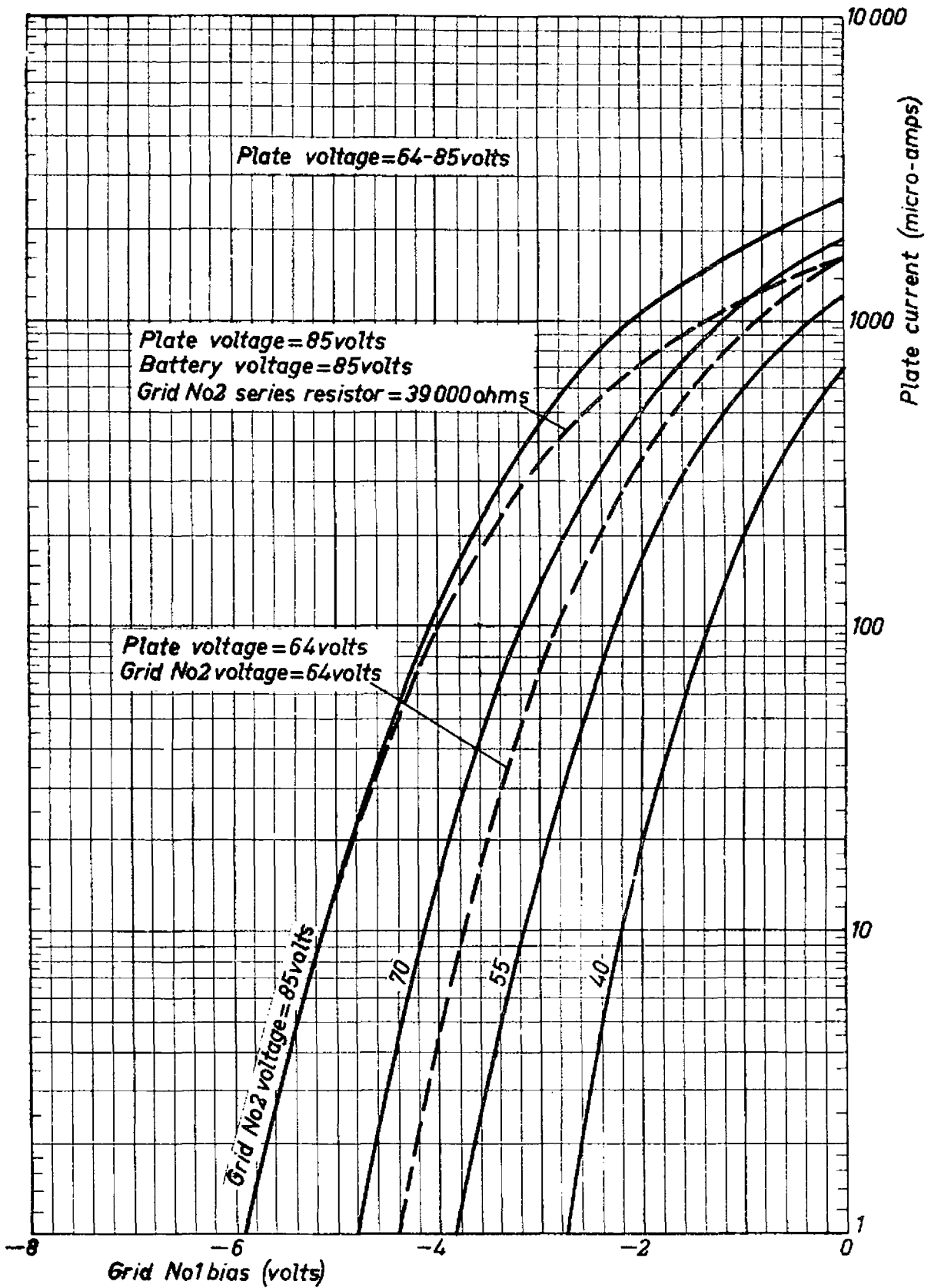
Battery voltage	90 volts ^{x)}
Plate voltage	90 volts
Plate dissipation	0.25 watt
Grid No.2 voltage	90 volts
Grid No.2 dissipation	0.1 watt
Cathode current	2.2 m amps
Grid No.1 circuit resistance	3 megohms
Grid current starting point.	
Grid No.1 voltage when grid	
No.1 current = + 0.3 μ amp	-0.2 volt

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

Plate voltage ⁺)	85	64	volts
Grid No.2 series resistor	39000	0	ohms
Grid No.1 bias	0 -5.5	0 -4.1	volts
Grid No.2 voltage	64	85	64 volts
Plate current	1.65	-	1.65 - m amps
Grid No.2 current	0.55	-	0.55 - m amp
Transconductance	750	10	750 10 micromhos
Plate resistance	0.7	>5	1.0 >5 megohms

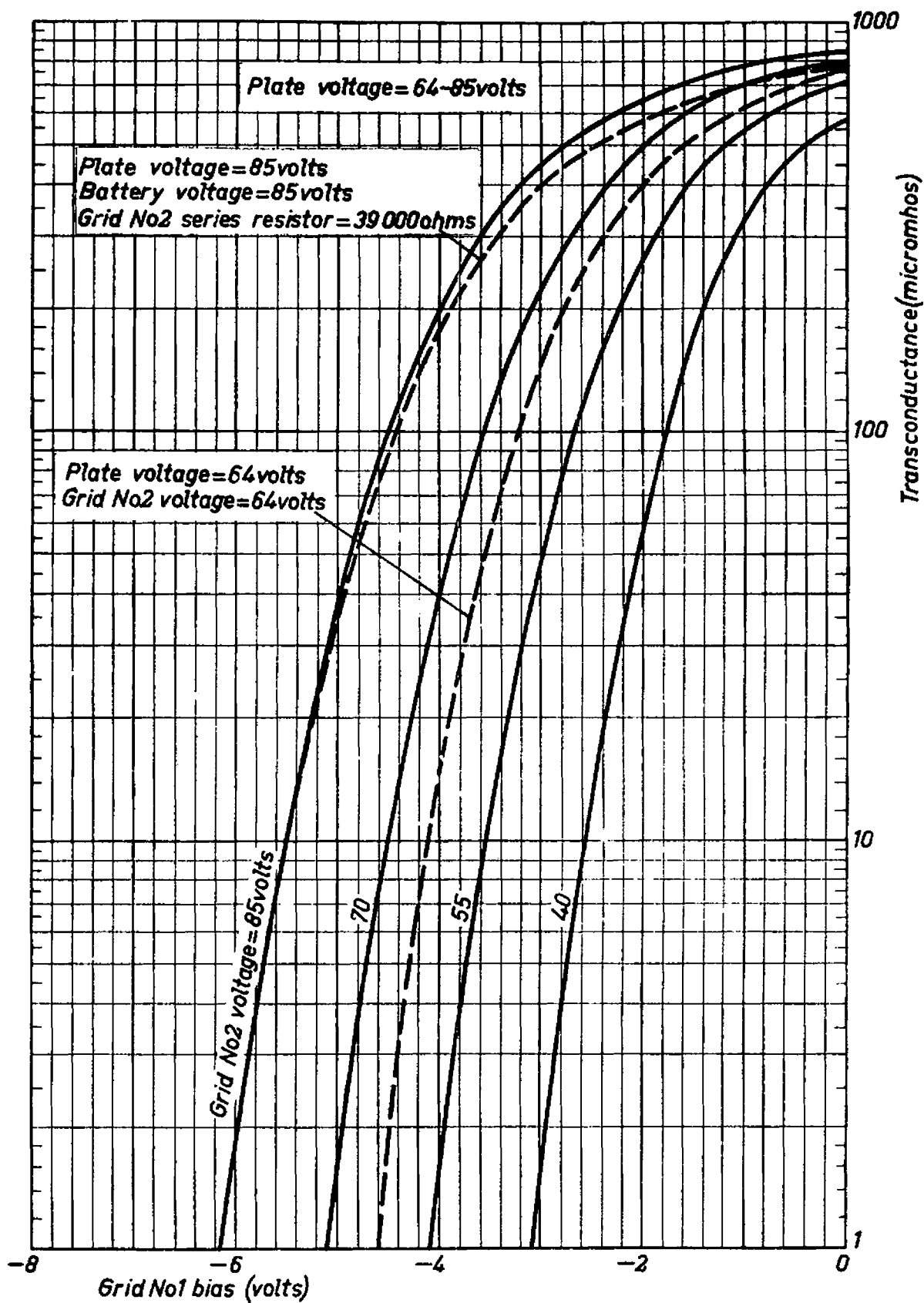
x) The absolute permissible maximum of the battery voltage is 110 volts

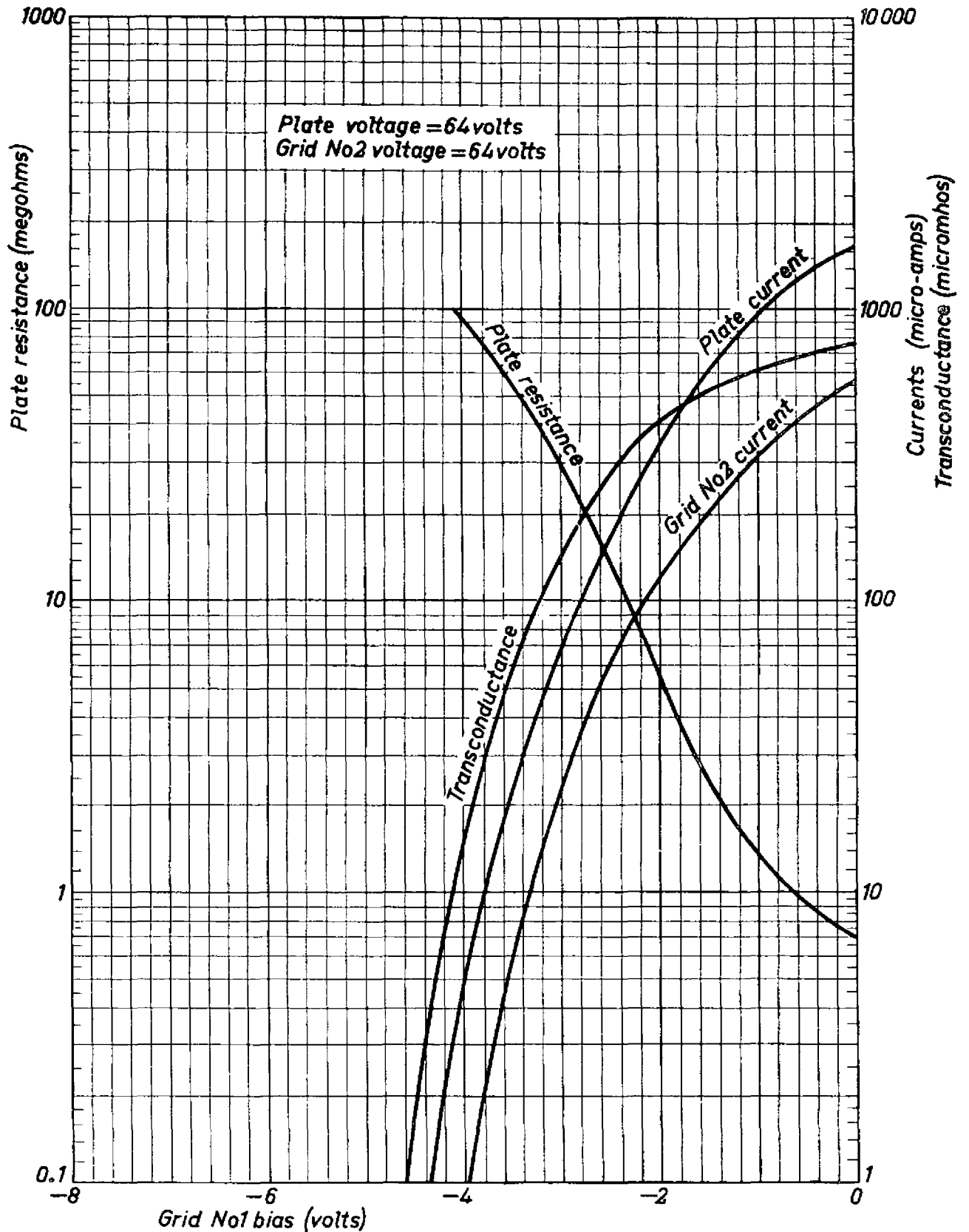
+) Based on a supply voltage of 90 or 67.5 volts reduced by the bias for the output tube.



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