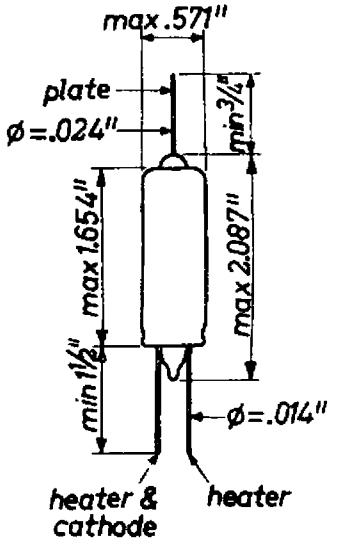
PHILIPS 6 X 2

HIGH-VOLTAGE HIGH-VACUUM RECTIFYING TUBE

Physical Specifications

Heater	Coated unipotential
Base	none
Maximum overall length	2.087"
Maximum diameter	.571"
Mounting position	any



General Electrical Data

Capacitance between plate and cathode	0.8 µµF
Heater voltage	6.3 volts
Heater current	90 ma

Maximum Ratings for operation at 60 c/s with sinusoidal input voltage (design center values)

Peak inverse plate voltage	max.	14,000 volts
D.C. output current	max.	3 ma
Filter input capacitor	max.	0.1 µF
Total effective plate supply impedance	min.	0.1 megohm

Maximum Ratings for operation at 10,000 to 500,000 c/s with sinusoidal voltage (design center values)

Peak inverse plate voltage	max.	17,000 volts
D.C. output current	max.	3 ma
Filter input capacitor	max.	0.01 µF
Total effective plate supply impedance	min.	0.1 megohm

Maximum Ratings for use as pulse type E.H.T. supply (design center values)

Peak inverse voltage	max.	17,000 volts
D.C. output current	max.	0.2 ma
Peak plate current	max.	80 ma [1]
Filter input capacitor	max.	5000 µµF

[1]) Maximum pulse duration ½ % of one cycle, with a maximum of 5 µ seconds.

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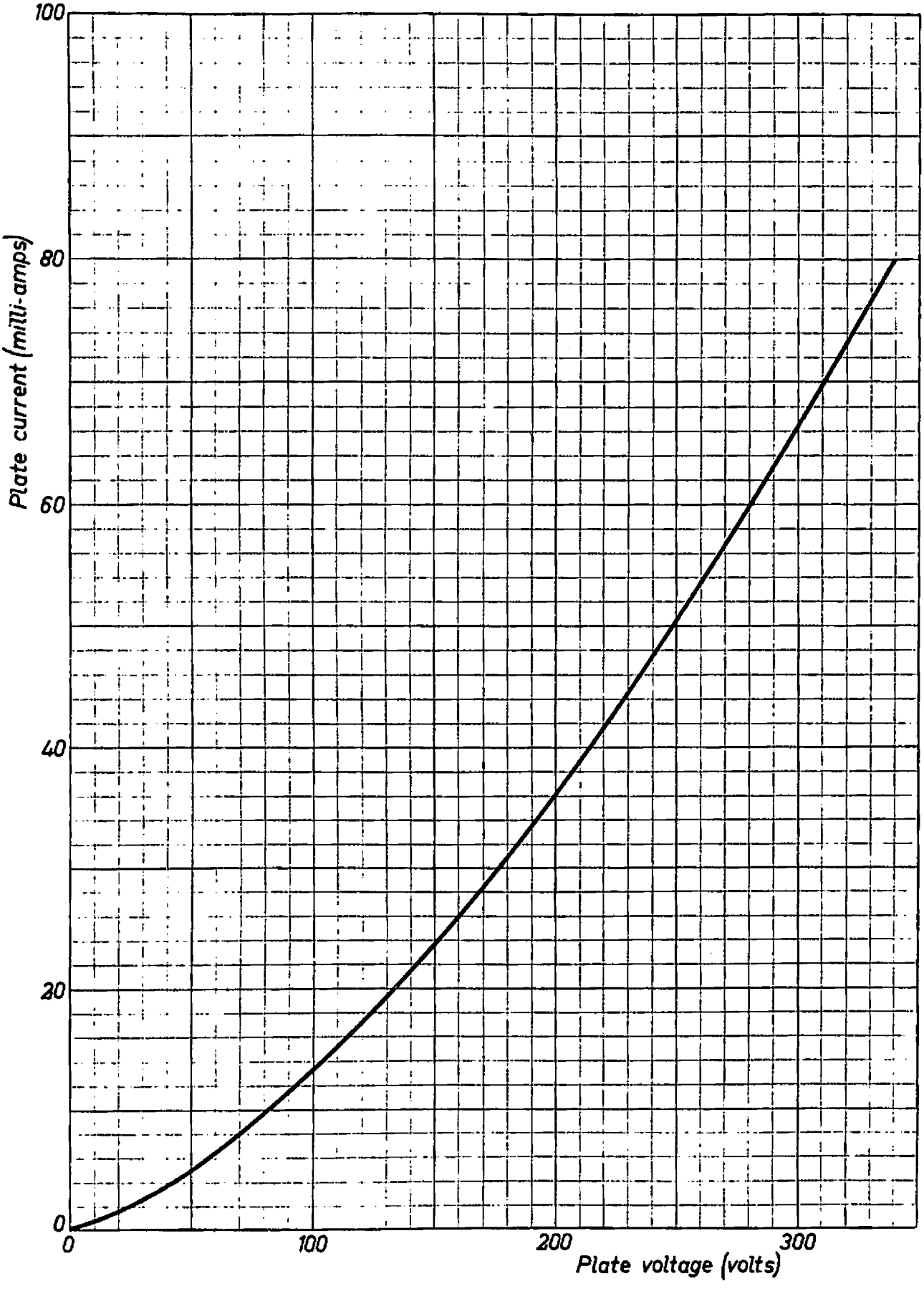
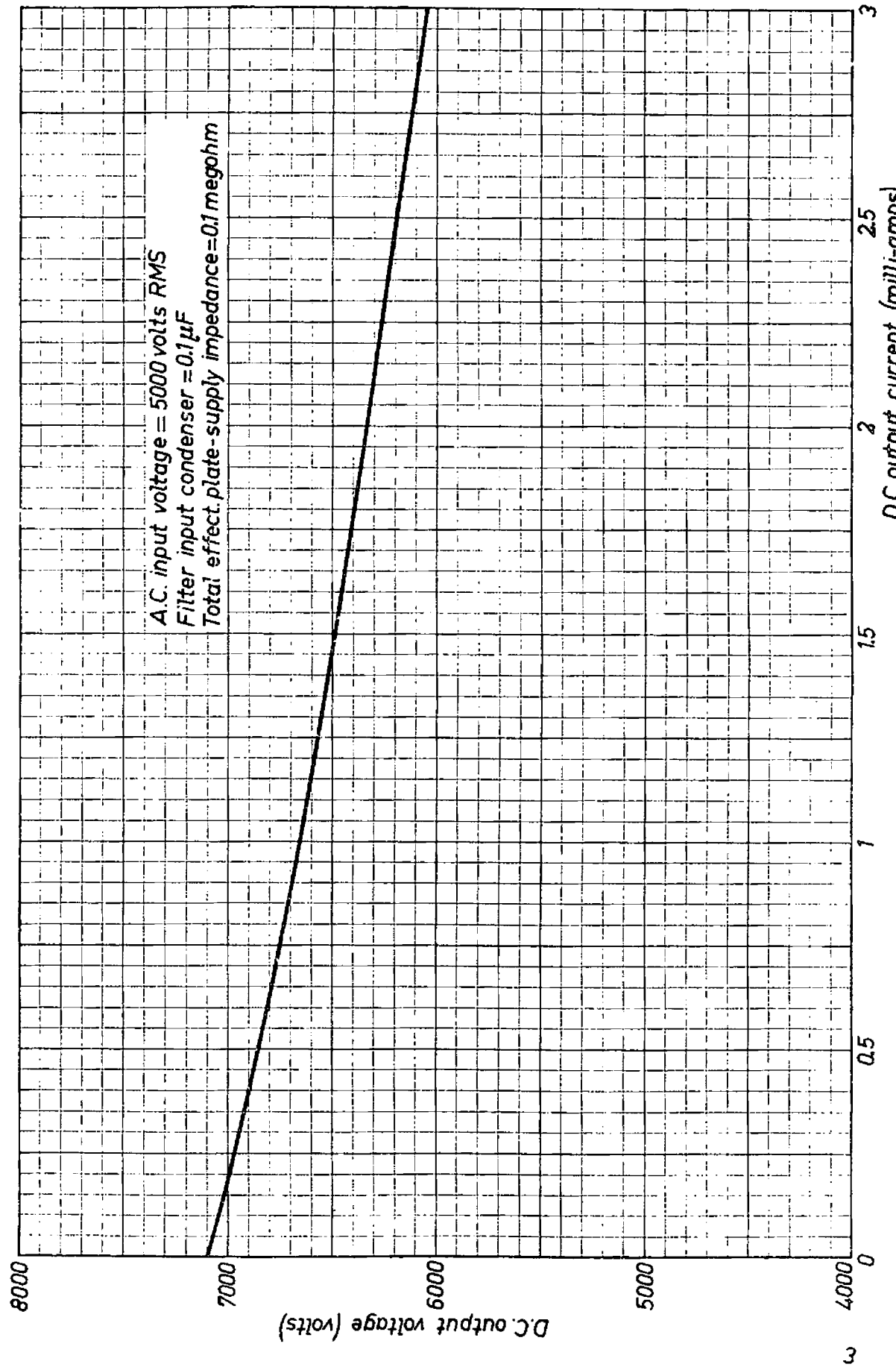
6X2 PHILIPS


100
80
60
40
20
0
Plate current (milli-amps)
0
100
200
300
Plate voltage (volts)


A.C. input voltage = 5000 volts RMS
Filter input condenser = 0.1 µF
Total effect. plate-supply impedance = 0.1 megohm
D.C. output voltage (volts)
8000
7000
6000
5000
4000
0
0.5
1
1.5
2
2.5
3
D.C. output current (milli-amps)