from JETEC release #1699, July 30, 1956
sponsor: Rogers Electronic Tubes, Toronto, Canada

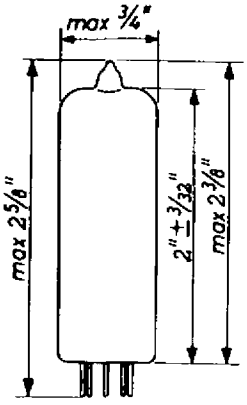
30A5

OUTPUT PENTODE for use in receivers for low mains voltages

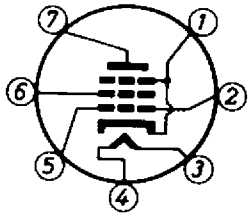
MECHANICAL DATA

Cathode	Coated unipotential
Base	E7-1
Bulb	T5½
RETMA basing designation	7 CV
Mounting position	Any

TUBE OUTLINE



BOTTOM VIEW OF BASE



BASE PIN No.	ELEMENT
1	Cathode, grid No.3
2	Grid No.1
3	Heater
4	Heater
5	Grid No.1
6	Grid No.2
7	Plate

ELECTRICAL DATA

Heater data

Heater voltage	30 volts
Heater current	150 mamps

DIRECT INTERELECTRODE CAPACITANCES

Plate to all other elements	5.8 μμF
Grid No.1 to all other elements	12 μμF
Plate to grid No.1	0.3 μμF
Grid No.1 to heater	0.4 μμF

MAXIMUM RATINGS (Design Center Values)

Plate voltage	150 volts
Plate voltage (without current)	550 volts
Plate dissipation	7.5 watts
Grid No.2 voltage	150 volts
Grid No.2 voltage (without current)	550 volts
Grid No.2 dissipation	1.5 watts
Peak grid No.2 dissipation during drive	2.5 watts
Cathode current	100 mamps
Grid No.1 circuit resistance with automatic bias	1 megohm
Voltage between heater and cathode	150 volts

OPERATING CHARACTERISTICS

Plate voltage	100 volts
Grid No.2 voltage	100 volts
Grid No.1 voltage	-6.7 volts
Zero signal plate current	43.0 mamps
Max. signal plate current	43.0 mamps
Zero signal grid No.2 current	3.0 mamps
Max. signal grid No.2 current	11 mamps
Transconductance	9200 micromhos
Plate resistance	22 000 ohms
Amplification factor of grid No.2 with respect to grid No.1	7.8
Plate load resistance	2400 ohms
Output power at 10% distortion	1.9 watts
Required input A.F. voltage	4.3 volts rms
Required input A.F. voltage at an output power of 50 mwatts	0.55 volts rms

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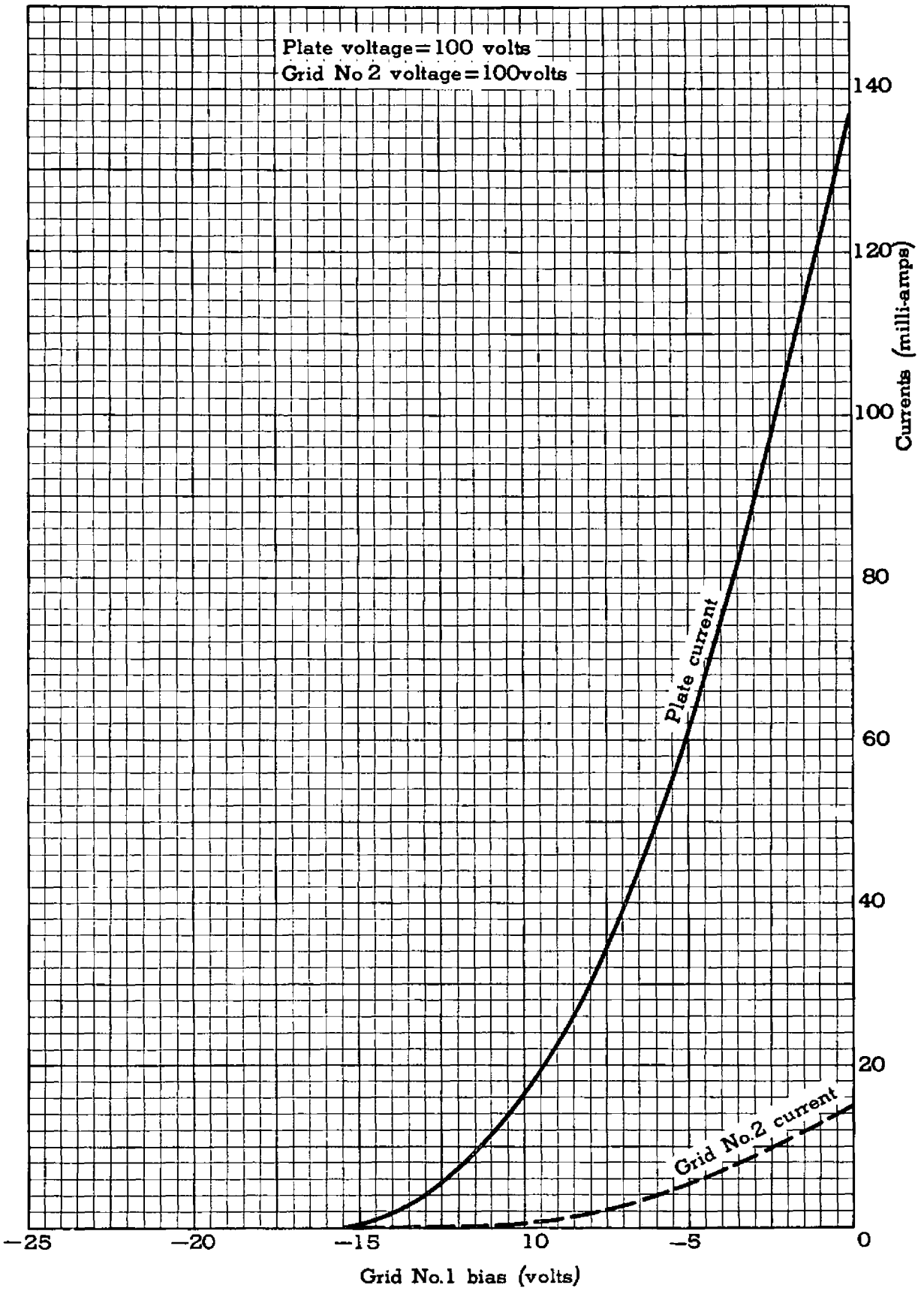

April 28, 1956

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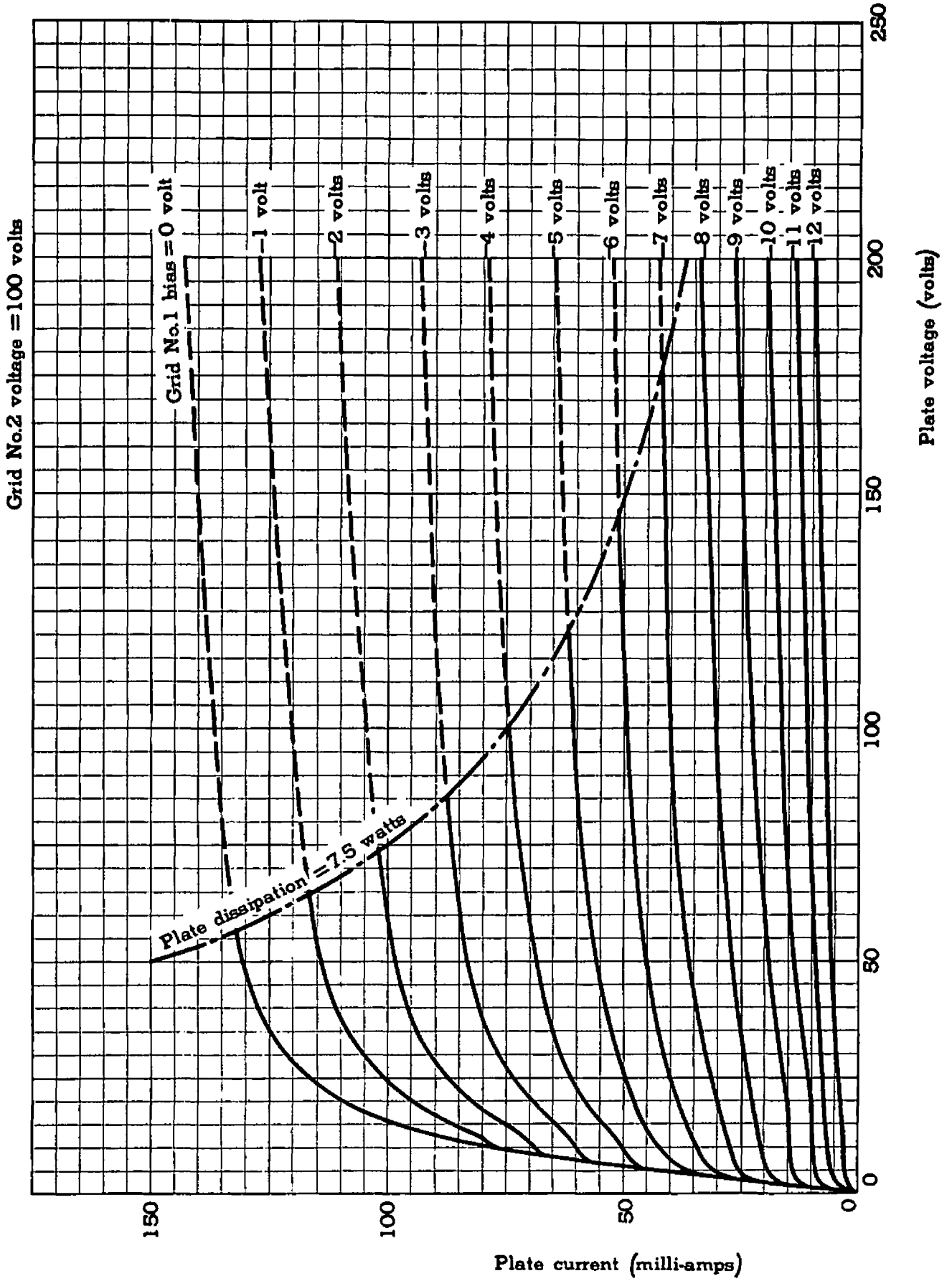

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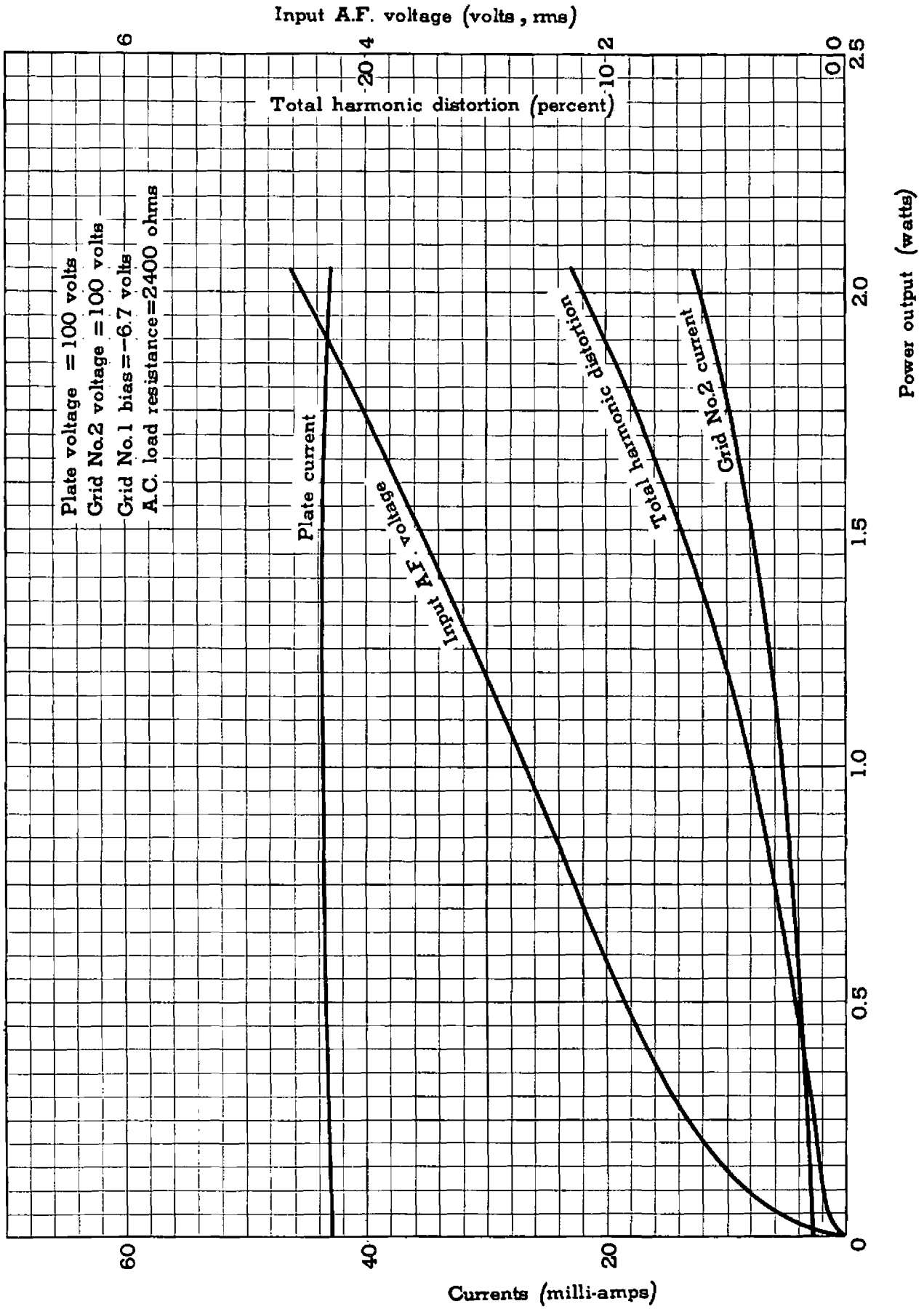

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