

7119/E182CC

Characteristics (Each Section)

Plate Voltage	120	150 volts
Grid Voltage	-2	-14 volts
Plate Current	36	max 0.2 mA
Transconductance	15,000	micromhos
Amplification Factor	24	

Maximum Ratings, Absolute Values (Each Section)

Plate Voltage	300 volts
Plate Supply Voltage	600 volts
Negative Grid Voltage	100 volts
Peak Negative Grid Voltage ¹	200 volts
Positive Grid Voltage	1 volt
Peak Positive Grid Voltage ²	30 volts
Peak Heater-to-Cathode Voltage	200 volts
Grid Current	8 mA
Peak Grid Current ¹	200 mA
Cathode Current	60 mA
Peak Cathode Current ²	400 mA
Plate Dissipation	4.5 watts
Plate Dissipation of Both Sections	8 watts
Bulb Temperature	160°C

Maximum Ratings, Absolute Values for Circuit Design

Grid Resistor (fixed bias)	0.5 megohm
Grid Resistor (automatic bias)	1 megohm

Characteristic Range Values for Equipment Design

	Min	Max
Heater Current	605	675 mA
Plate Current ($E_b = 90V, I_c = 250 \mu A$)	41	62 mA
Plate Current ($E_b = 120V, E_c = 2V$)	26	45 mA
Plate Current ($E_b = 150V, E_c = -14V$)	-	0.2 mA
Negative grid current ($E_b = 120V, E_c = -2V, R_g = 0.1 \text{ meg}$)	--	0.2 mA
Heater-Cathode leakage current ($E_{hk} = 200V, R = 1 \text{ meg}$)	--	15 μA
Transconductance ($E_b = 120V, R_k = 55 \text{ ohms}$)	11,200	18,800 micromhos
Insulation resistance	100	-- megohms

Direct Interelectrode Capacitances

Triode No. 1

Input	5.3	6.7 μf
Output	0.75	1.45 μf
Plate to grid	3.4	4.6 μf

Triode No. 2

Input	5.3	6.7 μf
Output	0.65	1.35 μf
Plate to grid	3.4	4.8 μf

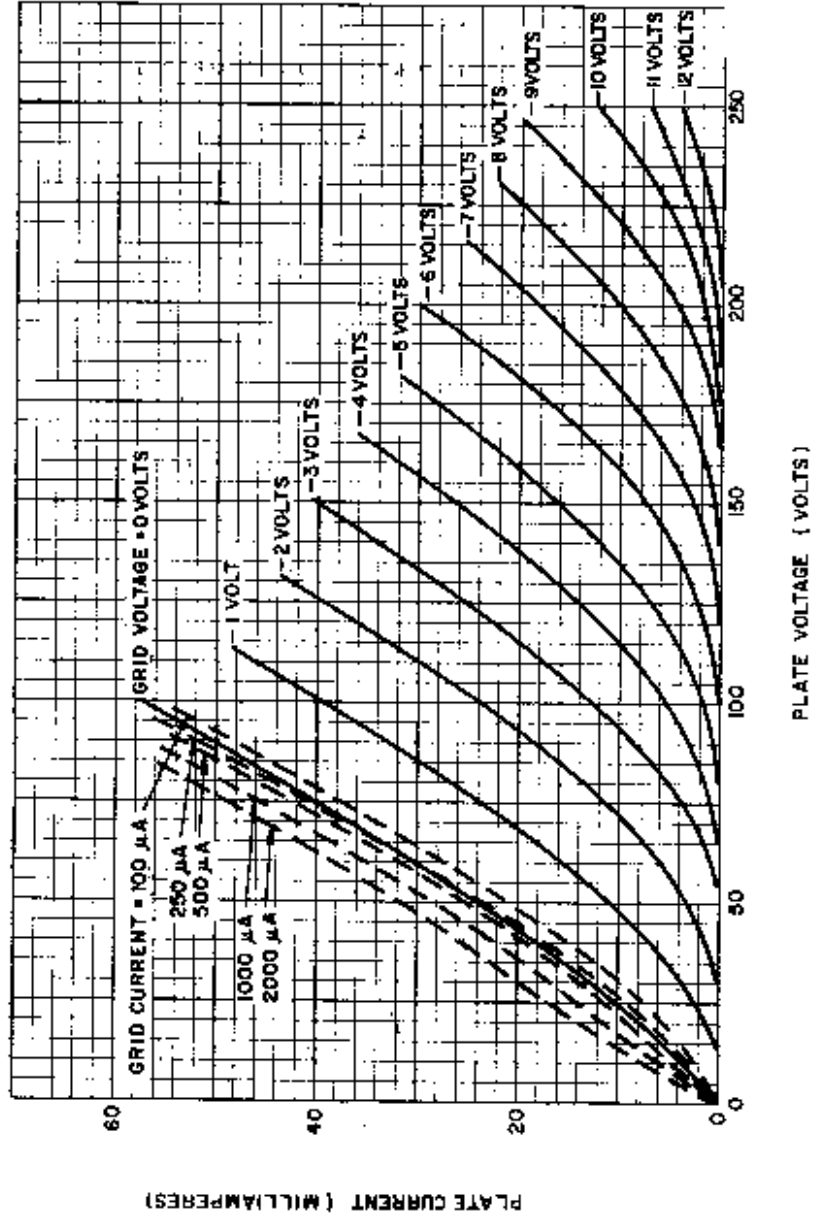
Between Sections

Grid to grid	--	0.15 μf
Plate to plate	--	0.8 μf
Plate of Triode 1 to grid of Triode 2	--	0.1 μf
Plate of Triode 2 to grid of Triode 1	--	0.1 μf

¹ Pulse duration, 10 microseconds; duty cycle, 1%.

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PLATE CHARACTERISTICS



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TRANSFER CHARACTERISTICS

