

The 9T9 design utilizes a T-9 (1 1/8" Dia.) bulb based to fit a standard 9-pin miniature socket. Advantages of the 9T9 include an increase in the heat dissipation safety margin, as compared to 9-pin miniature tubes employing T-6 1/2 (1 3/16" Dia.) bulbs.

MECHANICAL DATA

Bulb	Special, T-9
Base	9-Pin, Same as E9-1, except Bulb Diameter
Outline	See Drawing
Basing	9MQ
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS	7754	7695	
Heater Voltage	6.3	50 Volts	
Heater Current ¹	1200	150 Ma	
Heater-Cathode Voltage (Design Maximum Values)			
Heater Negative with Respect to Cathode			
Total DC and Peak	200	200 Volts	Max.
Heater Positive with Respect to Cathode			
DC	100	100 Volts	Max.
Total DC and Peak	200	200 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES (Approx.)

Grid No. 1 to Plate	0.75 μpf
Input: g1 to (h+k, g3+g2)	14 μpf
Output: p to (h+k, g3+g2)	9 μpf

RATINGS (Design Maximum Values)

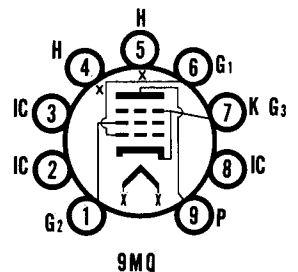
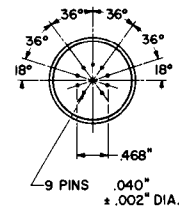
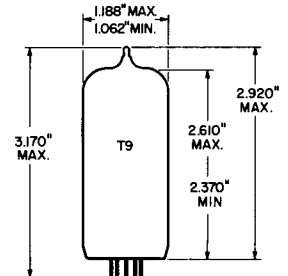
Plate Voltage	150 Volts	Max.
Grid No. 2 Voltage	150 Volts	Max.
Plate Dissipation	16 Watts	Max.
Grid No. 2 Dissipation	2.5 Watts	Max.
Grid No. 1 Circuit Resistance		
Fixed Bias	0.1 Megohm	Max.
Cathode Bias	0.5 Megohm	Max.

CHARACTERISTICS AND TYPICAL OPERATIONS

Class A1 Amplifier (Single Tube)			
Plate Voltage	130	140 Volts	
Grid No. 2 Voltage	130	140 Volts	
Grid No. 1 Voltage	-11	— Volts	
Cathode Resistor	—	100 Ohms	
Peak AF Grid No. 1 Voltage	11	11.3 Volts	
Zero Signal Plate Current	100	100 Ma	
Max. Signal Plate Current	108	100 Ma	
Zero Signal Grid No. 2 Current	5	5 Ma	
Max. Signal Grid No. 2 Current	15	14 Ma	
Transconductance	11,000	— μmhos	
Plate Resistance (Approx.)	7,000	— Ohms	
Load Resistance	1,100	1,100 Ohms	
Max. Signal Power Output	4.5	4.5 Watts	
Total Harmonic Distortion (Approx.)	11	11 Percent	
Class AB1 Push-Pull Amplifier (Values are for two tubes)			
Plate Voltage	130	140 Volts	
Grid No. 2 Voltage	130	140 Volts	
Grid No. 1 Voltage	-12	— Volts	
Cathode Resistor	—	50 Ohms	
Peak AF Grid No. 1 to Grid No. 1 Voltage	22.6	22.6 Volts	
Zero Signal Plate Current	195	210 Ma	
Max. Signal Plate Current	220	220 Ma	
Zero Signal Grid No. 2 Current	9	9 Ma	
Max. Signal Grid No. 2 Current	24	20 Ma	
Load Resistance (P1 to P1)	1,800	1,500 Ohms	
Maximum Signal Power Output	10	10 Watts	
Total Harmonic Distortion (Approx.)	6.0	4.0 Percent	

QUICK REFERENCE DATA

The Sylvania Types 7695 and 7754 are beam power pentodes featuring remarkably high power sensitivity as audio power amplifiers. In Class A1 operation, they can deliver 4.5 watts of power with a B+ voltage of only 130 volts. As a result, the 7695 and 7754 make possible economies in power supply requirements.



SYLVANIA ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.

RECEIVING TUBE OPERATIONS EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

AUGUST, 1960

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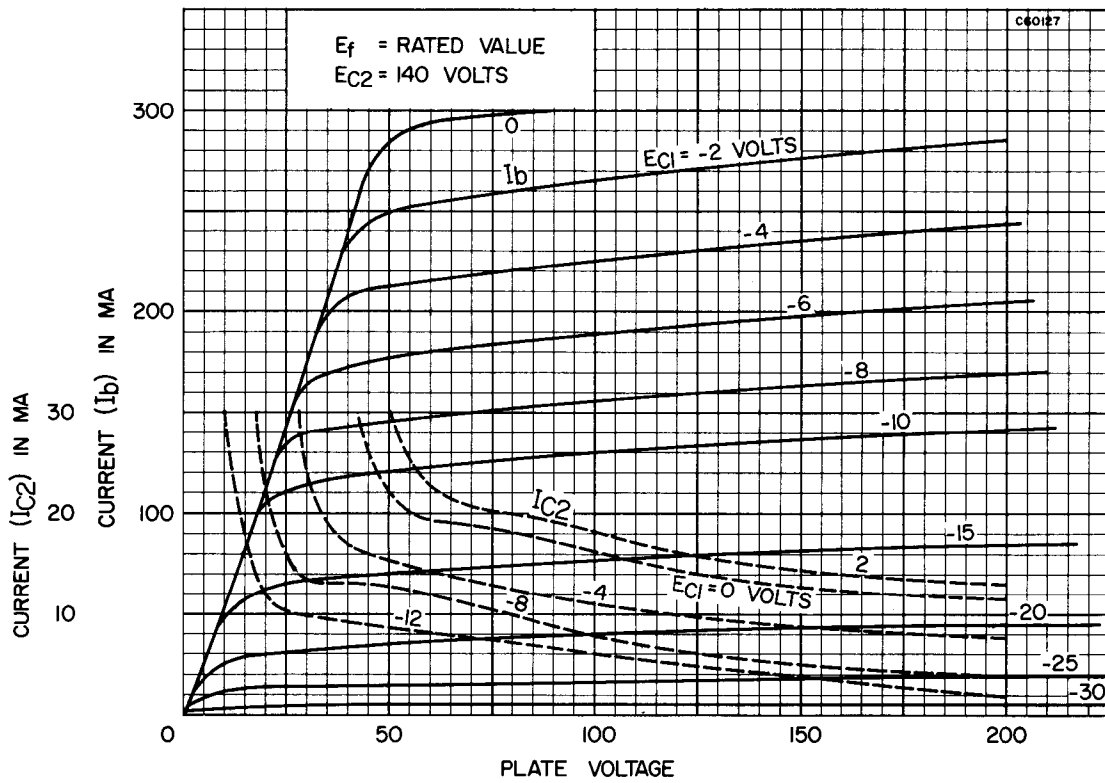
File Under
RECEIVING TUBES

SINGLE ENDED PUSH-PULL, CLASS A

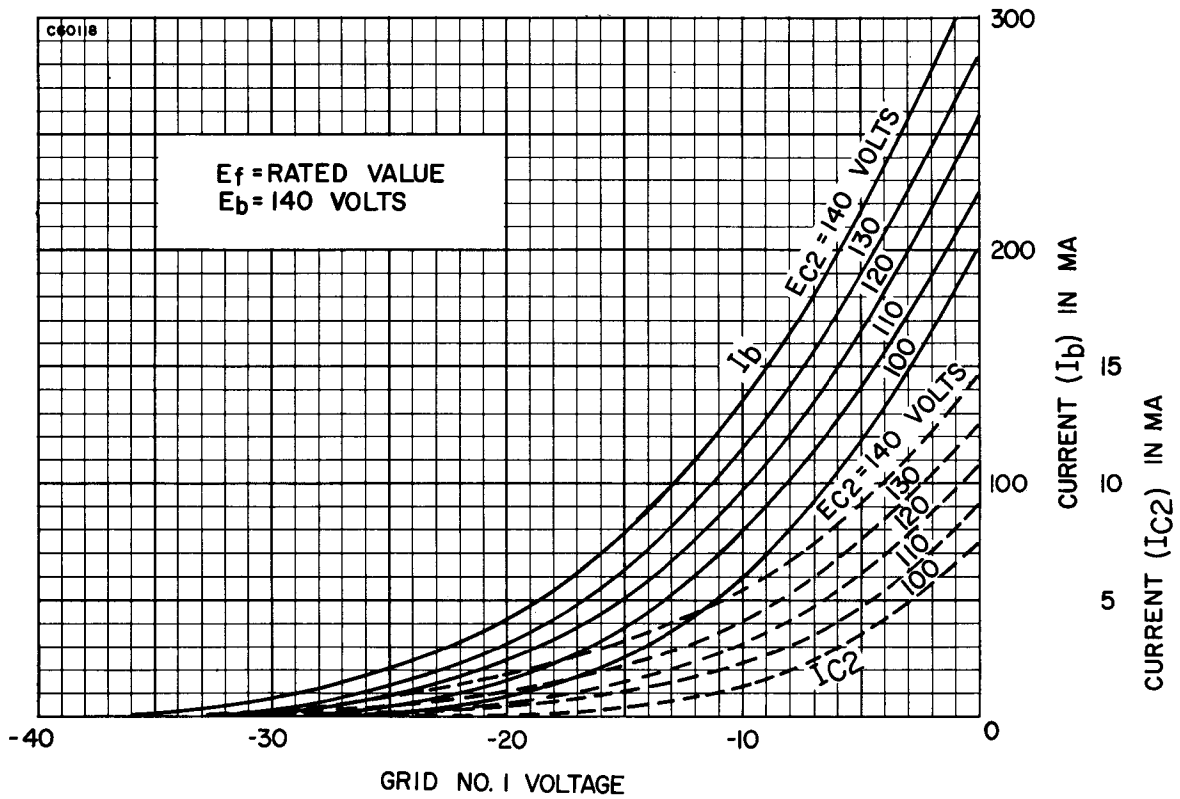
Transformerless Operation (See Circuit and Curve)

Supply Voltage	280 Volts
Plate Load Resistance	500 Ohms
Grid No. 2 Resistors (Rc2)	4000 Ohms
Peak AF Grid No. 1 Voltage	10.5 Volts
Power Output	5 Watts
Distortion	10 Percent

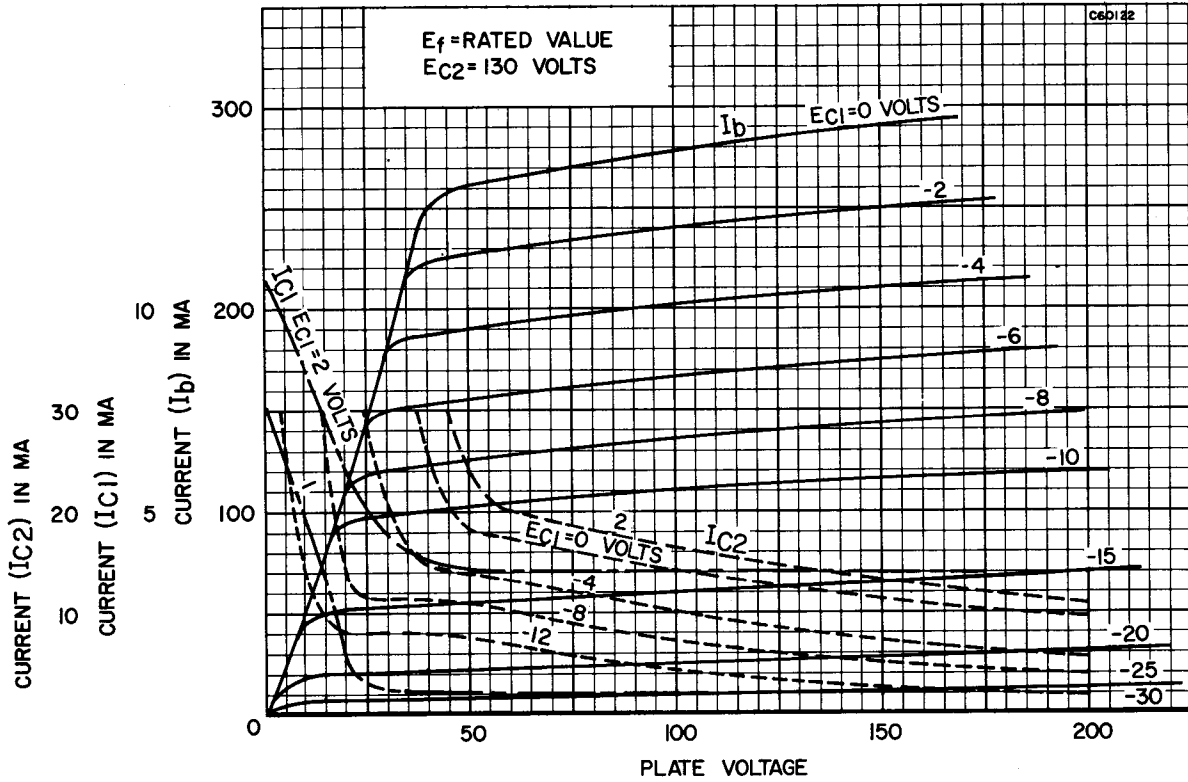
AVERAGE PLATE CHARACTERISTICS



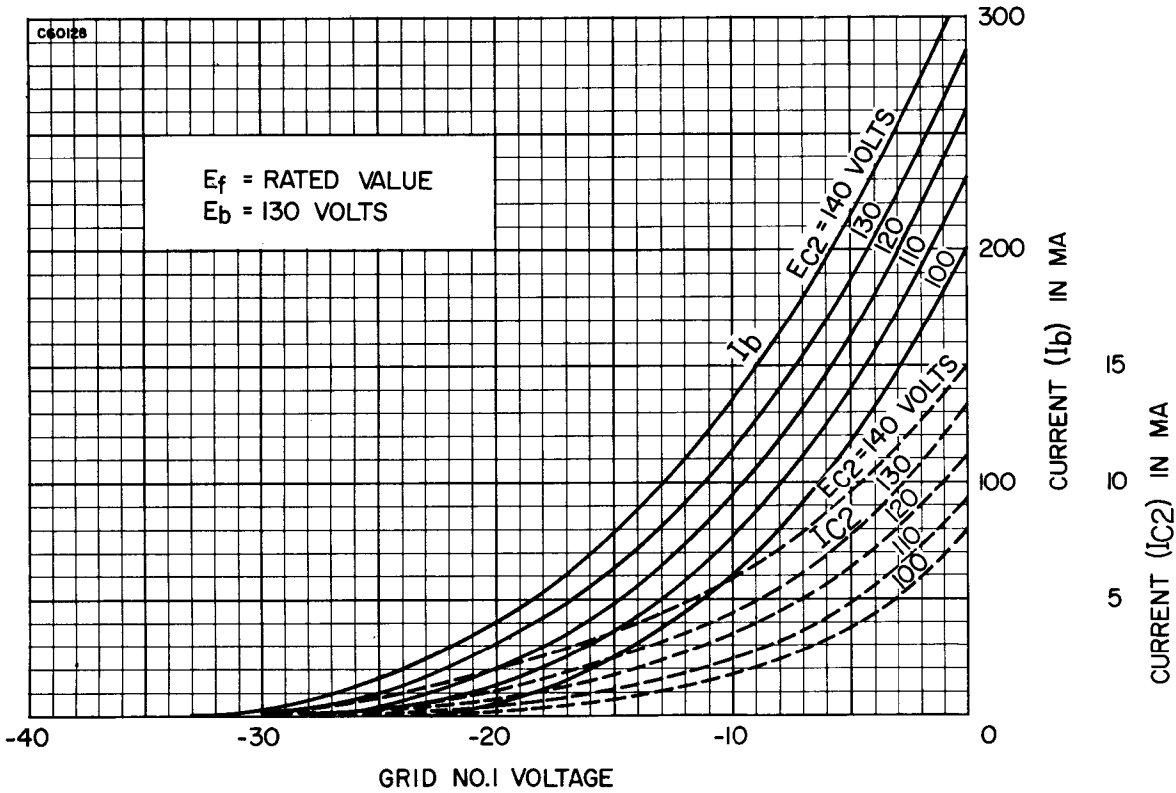
AVERAGE TRANSFER CHARACTERISTICS



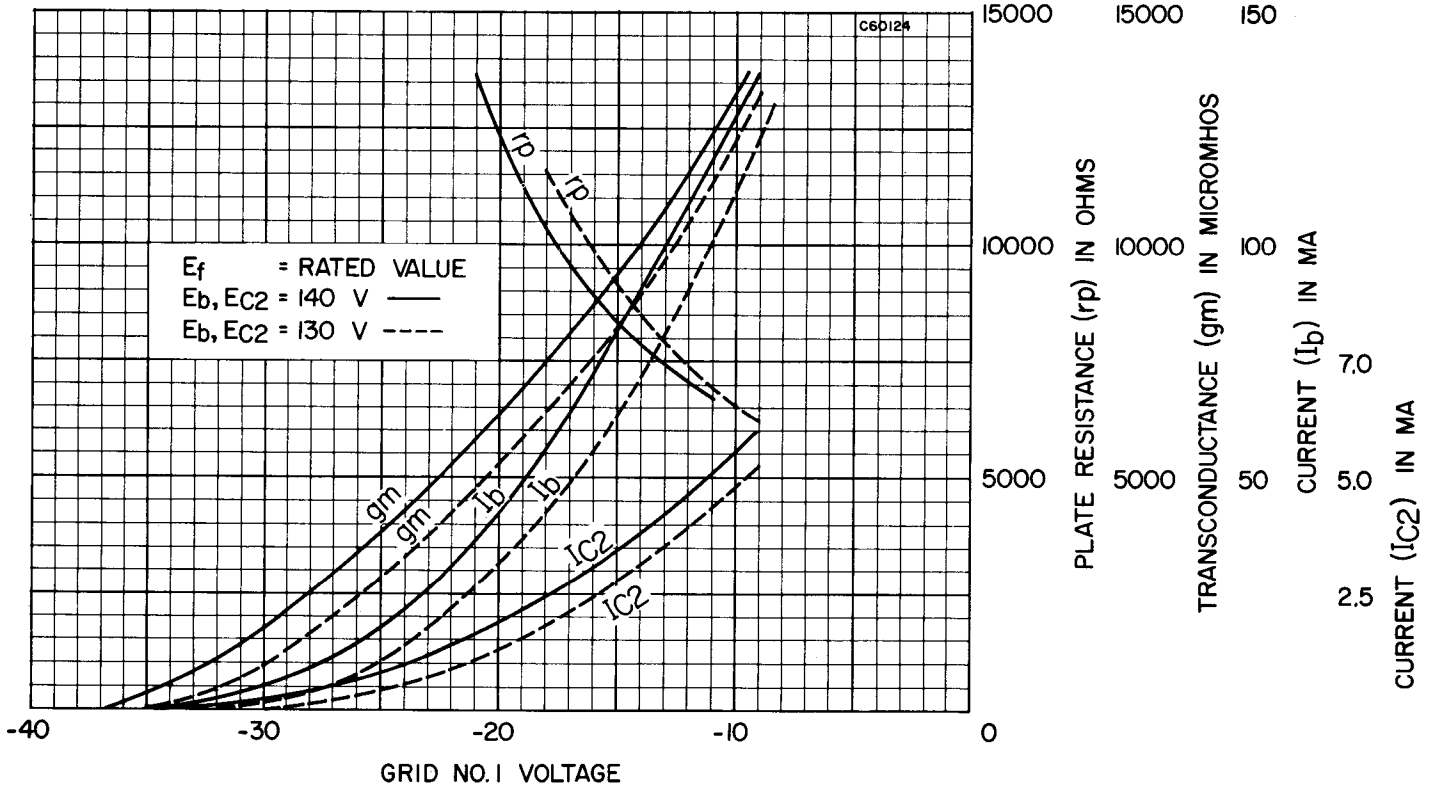
AVERAGE PLATE CHARACTERISTICS



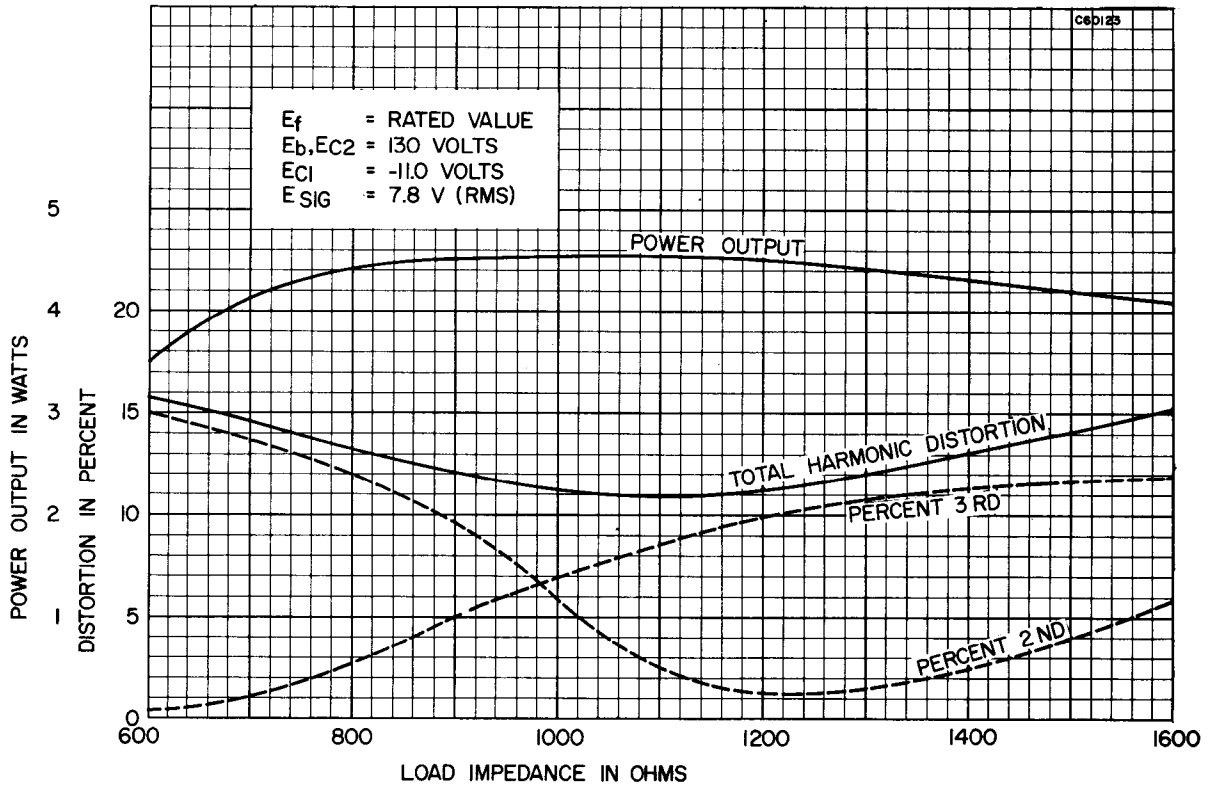
AVERAGE TRANSFER CHARACTERISTICS



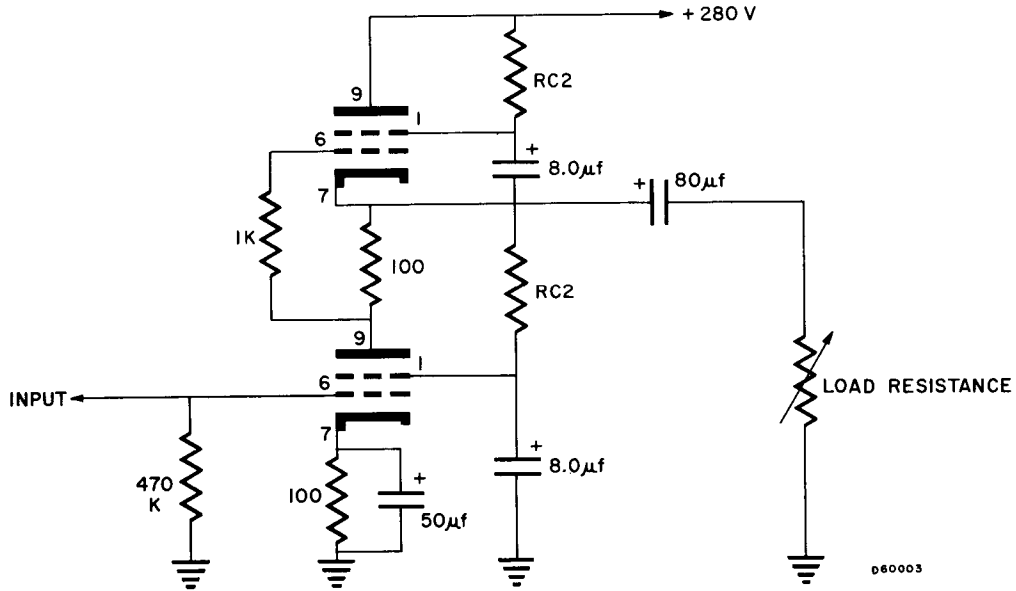
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE OPERATION CHARACTERISTICS (Class A1 Amplifier)



SINGLE ENDED PUSH-PULL CIRCUIT
(Transformerless)



D60003

SINGLE ENDED PUSH-PULL
(Transformerless Operation (See Circuit))

