117N7-GT

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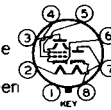
RECTIFIER–BEAM POWER AMPLIFIER

Heater	Coated Unipotential Cathodes	
Voltage	117	a-c or d-c volts
Current	0.09	amp.
Maximum Overall Length		3-7/16"
Maximum Seated Height		2-7/8"
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermediate Shell Octal 8-Pin
Pin 1 – No Connection		Pin 6 – Amplifier Cathode
Pin 2 – Heater		Pin 7 – Rectifier Plate, Heater
Pin 3 – Amplifier Plate		
Pin 4 – Amplifier Grid		Pin 8 – Rectifier Cathode
Pin 5 – Amplifier Screen		
Mounting Position		Any



BOTTOM VIEW (8AV)

RECTIFIER UNIT (Half-Wave)

Peak Inverse Voltage	350 max.	volts
Peak Plate Current	450 max.	ma.
D-C Heater-Cathode Potential	175 max.	volts
With Condenser-Input Filter:		
A-C Plate Voltage (RMS)	117 max.	volts
Total Effective Plate-Supply Impedance ▲	15 min.	ohms
D-C Output Current	75 max.	ma.

AMPLIFIER UNIT

Plate Voltage	117 max.	volts
Screen Voltage	117 max.	volts
Plate Dissipation	5.5 max.	watts
Screen Dissipation	1 max.	watt
Typical Operation and Characteristics – Class A_1 Amplifier:		
Plate Voltage	100	volts
Screen Voltage	100	volts
Grid Voltage □	-6	volts
Peak A-F Grid Voltage	6	volts
Zero-Signal Plate Current	51	ma.
Zero-Signal Screen Current	5	ma.
Plate Resistance	16000 approx.	ohms
Transconductance	7000	μmhos
Load Resistance	3000	ohms
Total Harmonic Distortion	6	%
Max.-Signal Power Output	1.2	watts

▲ When a filter-input condenser larger than 40 μf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

□ Type of input coupling used should not introduce too much resistance in the grid circuit. With fixed bias, the resistance should not exceed 0.25 megohm; with cathode bias, 1.0 megohm.

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.