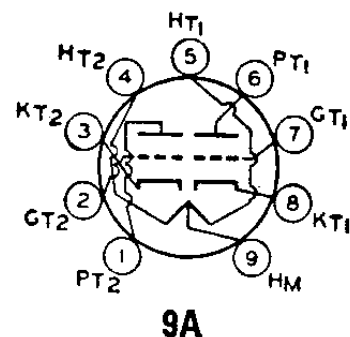


7247

DUAL TRIODE

Miniature type used for combined first- and second-stage audio preamplification in high-fidelity phonograph or tape equipment. Tube has high-mu unit and medium-mu unit. Outline 8B, Outlines section. Tube requires miniature nine-contact socket and may be operated in any position. **Heater:** volts (ac/dc), 12.6 (series), 6.3 (parallel); amperes, 0.15 (series), 0.3 (parallel).



Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

	Unit No.1	Unit No.2	
Plate Voltage	330	330	volts
Grid Voltage:			
Negative-bias value	55	55	volts
Positive-bias value	0	0	volts
Cathode Current	—	22	mA
Plate Dissipation	1.2	3	watts
Heater-Cathode-Voltage:			
Peak value		±200 max	volts
Average value		100 max	volts

CHARACTERISTICS

	Unit No.1		Unit No.2		
Plate Voltage	100	250	100	250	volts
Grid Voltage	—1	—2	0	—8.5	volts
Amplification Factor	100	100	20	17	
Plate Resistance (Approx.)	80000	62500	6500	7700	ohms
Transconductance	1250	1600	3100	2200	μmhos
Plate Current	0.5	1.2	11.8	10.5	mA
Grid Voltage (Approx.) for plate current of 10 μA	—	—	—	—24	volts

MAXIMUM CIRCUIT VALUES

	Unit No.1	Unit No.2	
Grid-Circuit Resistance:			
For fixed-bias operation	15 max	0.5 max	megohms
For cathode-bias operation	—	1 max	megohm

HUM OUTPUT VOLTAGE

Average Value (rms, cathode bypassed)■	1.8	μvolts
Maximum Value (rms, cathode unbypassed)*	7	μvolts

* The dc component must not exceed 100 volts.

■ Measured in "true rms" units under the following conditions: heater volts (ac), 6.3 (parallel connection); center tap of heater transformer connected to ground; dc plate supply volts, 250; plate load resistor, 0.1 megohm; cathode resistor, 2700 ohms; cathode-bypass capacitor, 100 μf; grid resistor, 0 ohms; amplifier covering frequency range of 25 to 10000 cps.

• Same conditions as above, except that cathode resistor is unbypassed and grid resistor is 0.05 megohm.