Class A. Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)		
Plate Voltage	330	volts
Grid Voltage:		
Negative-bias value	55	volts
Positive-bias value	0	volts
Plate Dissipation	1.2	watts
EQUIVALENT-NOISE AND HUM VOLTAGE (References To Grid, Each	Unit)•	
Average Value	1.8	"V rms

• Measured in "true rms" units under the following conditions: Heater voltage (parallel connection), 6.3 volts ac; center tap of heater transformer grounded; plate supply voltage, 250 volts dc; plate load resistor, 100000 ohms; cathode resistor, 2700 ohms bypassed by 100- μ F capacitor; grid resistor, 0 ohms; and amplifier covering frequency range between 25 and 10000 Hz.

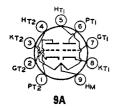
Refer to chart at end of section.

12AY3

Refer to type 6AY3B.

12AY3A

MEDIUM-MU TWIN TRIODE 12AY7



Heater Arrangement .

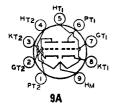
Miniature type used in the first stages of high-gain audio-frequency amplifiers. Outlines section, 6B; requires miniature 9-contact socket. Each triode unit is independent of the other except for the common heater. Use of the 12.6-volt connection with an ac heater supply is not recommended for applications involving low hum. For typical operation as a resistance-coupled amplifier, refer to Resistance-Coupled Amplifier section.

Series

ilcater intrangement.	Series	raranei	
Heater Voltage (ac/dc)	12.6	6.3	volts
Heater Current	0.15	0.3	ampere
Peak Heater-Cathode Voltage	0.10	±90 max	
Direct Interval to 1		±90 max	volts
Direct Interelectrode Capacitances (Approx., Each Unit)			
Grid to Plate		1.3	\mathbf{pF}
Grid to Cathode and Heater		1.3	pF
Plate to Cathode and Heater		0.6	
The to Cathode and Heater		0.0	\mathbf{pF}
Class A, Amplifier (Each	Unit)		
MAXIMUM RATINGS (Design-Center Values)			
Plate Voltage		300	volts
Grid Voltage:		500	VOILS
Negative-bias value		50	
The state of the s			volts
Positive-bias value		0	volts
Cathode Current		10	mA
Plate Dissipation		1.5	watts
CHARACTERISTICS			
Plate Voltage		250	volts
Grid Voltage		4	volts
Amplification Factor		40	10100
Plate Resistance			. 3
The Resistance		22800	ohms
Transconductance		1750	μ mhos
Plate Current		3	mA
Grid Voltage (Approx.) for plate current of 10 mA		11	volts
			.0100

Refer to chart at end of section.

12AZ7



HIGH-MU TWIN TRIODE

12AZ7A

Miniature type used in direct-coupled cathode-drive rf amplifier circuits of vhf color and black-and-white television tuners. Outlines section, 6B; requires miniature 9-contact socket. For characteristics as class A_1 amplifier, refer to miniature type 12AT7.