

CHARACTERISTICS AND TYPICAL OPERATION

	S. T. Class A	P-P Class AB Fixed Bias			P-P Class AB Self Bias	
Plate Voltage	250	250	350	400	300	310 Volts
Grid No. 2 Voltage	250	250	280	290	300	310 Volts
Grid No. 1 Voltage	-15	-15	-22	-25	—	— Volts
Cathode Resistor	—	—	—	—	230	270 Ohms
Peak AF Grid No. 1 Voltage	—	15	22	25	24	22.5 Volts
Plate Current (Zero Signal)	46	92	58	50	80	77 Ma
Plate Current (Max. Signal)	—	105	106	107	96	92 Ma
Grid No. 2 Current (Zero Signal) ..	3.5	7	3.5	2.5	6	5 Ma
Grid No. 2 Current (Max. Signal) ..	—	16	14	13.7	14	14 Ma
Transconductance	4.8K	—	—	—	—	— μ mhos
Plate Resistance	73K	—	—	—	—	— Ohms
Load Resistance (P to P)	—	8K	7.5K	8K	5.5K	6K Ohms
Power Output	—	12.5	20	24	15	17 Watts
Total Harmonic Distortion	—	2	1.5	2	2	4 Percent
E _{c1} for I _b = 100 μ a	-40	—	—	—	—	— Volts

Class AB Ultra-Linear Conn.

Plate Supply Voltage	375 ⁽¹⁾	370 ⁽²⁾	Volts
Grid No. 1 Voltage	-33.5	—	Volts
Cathode Resistor	—	355	Ohms
Peak AF Grid No. 1 Voltage	33.5	31	Volts
Cathode Current (Zero Signal)	62	74	Ma
Cathode Current (Maximum Signal) ..	95	84	Ma
Load Resistance (P to P)	12.5K	13K	Ohms
Power Output	18.5	15	Watts
Total Harmonic Distortion	1.5	1.2	Percent

NOTES:

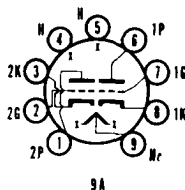
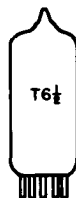
- (1) Obtained from taps on the primary winding of the output transformer. The taps are located on each side of the center tap so as to apply 50 percent of the plate signal voltage to Grid No. 2 of each output tube.
- (2) Obtained from taps on the primary winding of the output transformer. The taps are located on each side of the center tap so as to supply 43 percent of the plate signal voltage to Grid No. 2 of each output tube.

7025

Color Television Type

**AF AMPLIFIERS or
PHASE INVERTERS****Double High Mu Triode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9A
 Outline 6-2
 Maximum Diameter 0.875 In.
 Maximum Seated Height 1.937 In.
 Maximum Overall Height 2.187 In.
 The Type 7025 is identical to the Type 12AX7/ECC83 except for improved noise and hum characteristics.

**7189A****AUDIO POWER AMPLIFIER****Beam Power Pentode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9LE
 Outline 6-4
 Maximum Diameter 0.875 In.
 Maximum Seated Height 2.812 In.
 Maximum Overall Height 8.062 In.

