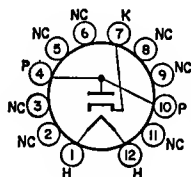


Plate Resistance (Approx.)	—	0.2	megohm
Transconductance	4000	9500	μmhos
Plate Current	4	15	mA
Grid-No.2 Current	—	3.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	—5	—8	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	0.25	megohm
For cathode-bias operation	1	1	megohm



12BL

HALF-WAVE VACUUM RECTIFIER

6AX3

12AX3, 17AX3

Duodecar type used as damper tube in horizontal-deflection circuits of television receivers. Outlines section, 8C; requires 12-contact socket. Socket terminals 5, 6, 8, and 9 should not be used as tie points. This tube, like other power-handling tubes, should be adequately ventilated. Types 12AX3 and 17AX3 are identical with type 6AX3 except for heater ratings.

	6AX3	12AX3	17AX3	
Heater Voltage (ac/dc)	6.3	12.6	16.8	volts
Heater Current	1.2	0.6	0.45	amperes
Heater Warm-up Time (Average)	—	11	11	seconds
Direct Interelectrode Capacitances:				
Plate to Cathode and Heater			5.5	pF
Cathode to Plate and Heater			7.5	pF
Heater to Cathode			2.8	pF

Damper Service

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

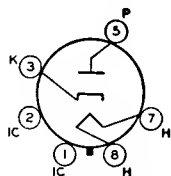
Peak Inverse Plate Voltage#	5000	volts	
Peak Plate Current	1000	mA	
Average Plate Current	165	mA	
Plate Dissipation	5.3	watts	
Heater-Cathode Voltage:			
Peak value	+300	—5000	volts
Average value	+100	—900	volts

CHARACTERISTIC

Tube Voltage Drop for plate current of 250 mA	32	volts
# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).		

Refer to chart at end of section.

6AX4GT



4CG

HALF-WAVE VACUUM RECTIFIER

6AX4GTB

12AX4GTB, 17AX4GTA

Glass octal type used as damper tube in horizontal-deflection circuits of color and black-and-white television receivers. Outlines section, 13D; requires octal socket. May be supplied with pin No. 1 omitted. Socket terminals 1, 2, 4, and 6 should not be used as tie points. This tube, like other power-handling tubes, should be adequately ventilated. Types 12AX4GTB and 17AX4GTA are identical with type 6AX4GTB except for heater ratings.

	6AX4-GTB	12AX4-GTB	17AX4-GTA	
Heater Voltage (ac/dc)	6.3	12.6	16.8	volts
Heater Current	1.2	0.6	0.45	amperes
Heater Warm-up Time (Average)	—	11	11	seconds
Direct Interelectrode Capacitances (Approx.):				
Cathode to Plate and Heater			8.5	pF
Plate to Cathode and Heater			5	pF
Heater to Cathode			4	pF

Damper Service

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage#	5000	volts
Peak Plate Current	1000	mA
Average Plate Current	165	mA
Plate Dissipation	5.3	watts
Heater-Cathode Voltage:		
Peak value	+300	volts
Average value	+100	volts

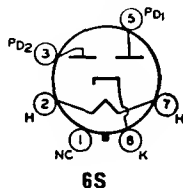
CHARACTERISTIC, Instantaneous Value

Tube Voltage Drop for plate current of 250 mA	32	volts
# Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).		

6AX5GT

FULL-WAVE VACUUM RECTIFIER

Glass octal type used in power supplies of radio equipment having moderate dc requirements. Outlines section, 13D; requires octal socket. This type may be supplied with pin No. 1 omitted. This tube, like other power-handling tubes, should be adequately ventilated. Heater: volts (ac), 6.3; amperes, 1.2.



Full-Wave Rectifier

MAXIMUM RATINGS (Design-Center Values)

Peak Inverse Plate Voltage	1250	volts
Peak Plate Current (Per Plate)	375	mA
Hot-Switching Transient Plate Current:		
For duration of 0.2 second maximum	2.6	amperes
AC Plate Supply Voltage (Per Plate, rms)	See Rating Chart	
Average Output Current (Per Plate, rms)	See Rating Chart	
Peak Heater-Cathode Voltage	±450	volts

TYPICAL OPERATION WITH CAPACITOR INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	700	900	volts
Filter Input Capacitor*	10	10	μF
Effective Plate-Supply Impedance Per Plate	50	105	ohms
DC Output Voltage at Input to Filter (Approx.):			
At half-load current of	62.5 mA	395	volts
	40 mA	—	volts
At full-load current of	125 mA	350	volts
	80 mA	—	volts
Voltage Regulation (Approx.):			
Half-load to full-load current	45	50	volts

TYPICAL OPERATION WITH CHOKE INPUT TO FILTER

AC Plate-to-Plate Supply Voltage (rms)	700	900	volts
Filter Input Choke	10#	10##	henries
DC Output Voltage at Input to Filter (Approx.):			
At half-load current of	75 mA	270	volts
	62.5 mA	—	volts
At full-load current of	150 mA	250	volts
	125 mA	—	volts

RATING CHART

