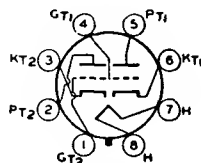


**6SN7GT
6SN7GTA**

Refer to chart at end of section.

6SN7GTB MEDIUM-MU TWIN TRIODE
12SN7GTA

Glass octal type used as combined vertical oscillator and vertical-deflection amplifier, and as horizontal-deflection oscillator, in color and black-and-white television receivers. Each unit may also be used in multi-vibrator or resistance-coupled amplifier circuits in radio equipment. Outlines section, 13D; requires octal socket. Except for the common heater, each triode unit is independent of the other. For typical operation as resistance-coupled amplifier, refer to Resistance-Coupled Amplifier section. Type 12SN7GTA is identical with type 6SN7GTB except for heater ratings.


8BD

	6SN7GTB	12SN7GTA	
Heater Voltage (ac/dc)	6.3	12.6	volts
Heater Current	0.6	0.3	ampere
Heater Warm-up Time (Average)	11	—	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances (Approx.):	Unit No.1	Unit No.2	
Grid to Plate	4.0	3.8	pF
Grid to Cathode and Heater	2.2	2.2	pF
Plate to Cathode and Heater	0.7	0.7	pF

Class A₁ Amplifier (Each Unit)
MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	450	volts
Cathode Current	20	mA
Plate Dissipation:		
For either plate	5	watts
For both plates with both units operating	7.5	watts

CHARACTERISTICS

Plate Voltage	90	250	volts
Grid Voltage	0	—8	volts
Amplification Factor	20	20	
Plate Resistance (Approx.)	6700	7700	ohms
Transconductance	3000	2600	μmhos
Plate Current	10	9	mA
Plate Current for grid voltage of —12.5 volts	—	1.3	mA
Grid Voltage (Approx.) for plate current of 10 μA	—7	—18	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance, for fixed-bias operation	1	megohm
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Oscillator (Each Unit)

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

	Vertical-Deflection Oscillator	Horizontal-Deflection Oscillator	
MAXIMUM RATINGS (Design-Center Values)			
DC Plate Voltage	450	450	volts
Peak Negative-Pulse Grid Voltage	400	600	volts
Peak Cathode Current	70	300	mA
Average Cathode Current	20	20	mA
Plate Dissipation:			
For either plate	5	5	watts
For both plates with both units operating	7.5	7.5	watts

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance	2.2	2.2	megohms
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Vertical-Deflection Amplifier (Each Unit)

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

MAXIMUM RATINGS (Design-Center Values)		
DC Plate Voltage	450	volts
Peak Positive-Pulse Plate Voltage# (Absolute maximum)	1500*	volts
Peak Negative-Pulse Grid Voltage	250	volts
Peak Cathode Current	70	mA

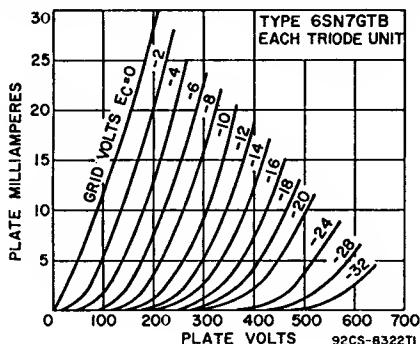
Average Cathode Current	20	mA
Plate Dissipation:		
For either plate	5	watts
For both plates with both units operating	7.5	watts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance, for cathode-bias operation	2.2	megohms
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Pulse duration must not exceed 15% of a vertical cycle (2.5 milliseconds).

■ Under no circumstances should this absolute value be exceeded.



Refer to chart at end of section.

6SQ7
6SQ7GT

Refer to chart at end of section.

6SR7

Refer to chart at end of section.

6SS7

Refer to chart at end of section.

6ST7

Refer to chart at end of section.

6SZ7

Refer to chart at end of section.

6T4

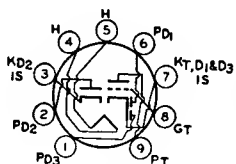
For replacement use type 6AF4A.

Refer to chart at end of section.

6T7G

Refer to chart at end of section.

6T8



9E

TRIPLE DIODE— HIGH-MU TRIODE

6T8A

5T8, 19T8

Miniature type used as combined audio amplifier, AM detector, and FM detector in AM/FM radio receivers. Diode unit No.1 is used for AM detection, and diode units No.2 and No.3 are used for FM detection. Outlines section, 6B; requires miniature 9-contact socket.

For typical operation as resistance-coupled amplifier,

refer to Resistance-Coupled Amplifier section. Types 5T8 and 19T8 are identical with type 6T8A except for heater ratings.

	5T8	6T8A	19T8	
Heater Voltage (ac/dc)	4.7	6.3	18.9	volts
Heater Current	0.6	0.45	0.15	ampere
Heater Warm-up Time (Average)	11	11	11	seconds
Heater-Cathode Voltage:				
Peak value	±200 max	±100 max	±90 max	volts
Average value	100 max	--	--	volts