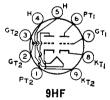
Vertical-Deflection Oscillator and Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values) DC Plate Voltage Peak Positive-Pulse Plate Voltage# Peak Negative-Pulse Grid Voltage Peak Cathode Current Average Cathode Current Plate Dissipation	Unit No.1 Oscillator 330 400 77 22 1.5	Unit No.2 Amplifier 330 1500 250 175 50	volts volts volts mA mA watts
MAXIMUM CIRCUIT VALUES			
Grid-Circuit Resistance: For cathode-bias operation For grid-resistor-bias operation	2.2 2.2	2.2 2.2	megohms megohms
the state of the s			

Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).

6EX6	section.	end of	at	chart	· to	Refer
6EY6	section.	end of	at	chart	· to	Refer
6EZ5	section.	end of	at	chart	· to	Refer
6EZ8	section.	end of	at	chart	to	Refer
6F4	section.	nd of	at	chart	to	Refer
6 F 5	section.	end of	at	chart	to	Refer
6F5GT	section.	end of	at	chart	to	Refer
6F6 6F6G 6F6GT	section.	nd of	at	chart	to	Refer
6F7	section.	nd of	at	chart	to	Refer
6F8G	section.	nd of	at	chart	to	Refer
6FA7	section.	nd of	at	chart	to	Refer



DUAL TRIODE

6FD7

Miniature type containing high-mu and low-mu triode units used as combined vertical-deflection oscillator and vertical-deflection amplifier in television receivers. Outlines section, 6E; requires miniature 9-contact socket. Type 13FD7 is identical with type 6FD7 except for heater ratings.

Heater Voltage (ac/dc) Heater Current Heater Warm-up Time (Average)	6FD7 6.3 0.925	13FD7 13 0.45 11	volts ampere seconds
Heater-Cathode Voltage: Peak value Average value	100 max	±200 max 100 max	volts volts
Direct Interelectrode Capacitances (Approx.): Grid to Plate Grid to Cathode and Heater Plate to Cathode and Heater	Unit No.1 4.5 2.2 0.4	Unit No.2 10 6.5 0.2	pF pF pF

Class A. Amplifier

CHARACTERISTICS	Unit No.1	Unit	No.2	
Plate Voltage	250	60	150	volts
Grid Voltage Amplification Factor	$-3 \\ 64$	_0	-17.5 6	volts
Plate Resistance (Approx.) Transconductance	40000	_	800	ohms
Flate Current	$\frac{1600}{1.5}$	95=	7500 40	μmhos mA
Grid Voltage (Approx.): For plate current of 10 μA	5.5			
For plate current of 100 µA		_	40	volts volts
Transconductance, For plate current of 1 mA Plate Current, For grid voltage of -25 volts			500	μ mhos
This value can be measured by a method involvi		<u> </u>		mA

This value can be measured by a method involvir maximum ratings of the tube will not be exceeded. a method involving a recurrent waveform such that the

Vertical-Deflection Oscillator and Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)	Unit No.1 Oscillator	Unit No.2 Amplifier	
DC Plate Voltage Peak Positive-Pulse Plate Voltage#	330	330	volts
Peak Negative-Pulse Grid Voltage	400	1500 250	volts volts
Peak Cathode Current Average Cathode Current	70	175	mA
Plate Dissipation	$\frac{20}{1.5}$	50 10	mA watts
MAXIMUM CIRCUIT VALUES			

Grid-Circuit Resistance:

For grid-resistor-bias or cathode-bias operation 2.2 # Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).

6FE5

Refer to chart at end of section.

6FG6/EM84

Refer to chart at end of section.

5FG7

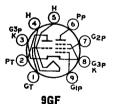
6FG7

Heater Voltage (ac/dc)

and Heater

MEDIUM-MU TRIODE-SHARP-CUTOFF PENTODE

Miniature type used as combined oscillator and mixer tube in vhf color and black-and-white television receivers. Outlines section, 6B; requires miniature 9-contact socket. Type 5FG7 is identical with type 6FG7 except for heater ratings.



6FG7

Heater Current Heater Warm-up Time (Average) Heater-Cathode Voltage:	4.7 0.6 11	6.3 0.45 11	volts ampere seconds
Peak value Average value	±200 max 100 max	±200 max 100 max	volts volts
Direct Interelectrode Capacitances: Triode Unit:		avv mux	VOICS
Grid to Plate	1.8	1.8	pF
Plate to Cathode, Pentode Grid No.3, and Heater Pentode Unit:	1.3	1.9	pF pF
Grid No.1 to Plate Grid No.1 to Cathode, Grid No.3, Grid No.2.	0.02 max	0.01 max	pF
and Heater	5	5	рF

Heater to Cathode, and Pentode Grid No.3

• With external shield connected to cathode except as noted.

• With external shield connected to ground.

Plate to Cathode, Grid No.3, Grid No.2,