

Pentode Grid No.1 to Triode Plate	15	pF
Pentode Grid No.1 to Triode Grid	<1.2	pF
Pentode Plate to Triode Plate	<1.5	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)	Triode Unit	Pentode Unit	
Plate Supply Voltage	550	550	volts
Plate Voltage	250	250	volts
Peak Plate Voltage*	600	—	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	550	volts
Grid-No.2 Voltage	—	250	volts
Cathode Current	18	18	mA
Plate Dissipation	1.5	2.1	watts
Grid-No.2 Input	—	0.7	watt

CHARACTERISTICS

Plate Voltage	170	160	volts
Grid-No.3 (Suppressor-Grid) Voltage	—	0	volts
Grid-No.2 Voltage	—	135	volts
Grid-No.1 (Control-Grid) Voltage	—1	—1.7	volts
Mu Factor, Grid-No.1 to Grid-No.2	—	55	
Amplification Factor	55	—	
Transconductance	4800	14000	μmhos
Plate Current	8.5	13	mA
Grid-No.2 Current	—	5	mA

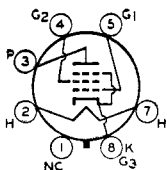
MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance	1	1	megohm
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* With a maximum duty factor of 0.18 and maximum pulse duration of 18 microseconds.

Refer to chart at end of section.

6Y5



7AC

BEAM POWER TUBE

**6Y6GA/
6Y6G**

Glass octal type used as output amplifier in radio receivers and in rf-operated, high-voltage power supplies in television equipment. Outlines section, 19B; requires octal socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	1.25	amperes
Peak Heater-Cathode Voltage	±180 max	volts
Direct Interelectrode Capacitances (Approx.):		
Grid No.1 to Plate	0.7	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	12	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	7.5	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)		
Plate Voltage	200	volts
Grid-No.2 (Screen-Grid) Supply Voltage	200	volts
Grid-No.2 Voltage	See curve page 300	
Plate Dissipation	12.5	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 100 volts	1.75	watts
For grid-No.2 voltages between 100 and 200 volts	See curve page 300	

TYPICAL OPERATION

Plate Voltage	135	200	volts
Grid-No.2 Voltage	135	135	volts
Grid-No.1 (Control-Grid) Voltage	—13.5	—14	volts
Peak AF Grid-No.1 Voltage	13.5	14	volts
Zero-Signal Plate Current	58	61	mA
Maximum-Signal Plate Current	60	66	mA
Zero-Signal Grid-No.2 Current	3.5	2.2	mA
Maximum-Signal Grid-No.2 Current	11.5	9	mA
Plate Resistance (Approx.)	9300	18300	ohms
Transconductance	7000	7100	μmhos
Load Resistance	2000	2600	ohms
Total Harmonic Distortion	10	10	per cent
Maximum-Signal Power Output	3.6	6	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.5	megohm

6Y6GT

For replacement use type 6Y6GA/6Y6G.

6Y7G

Refer to chart at end of section.

6Y9

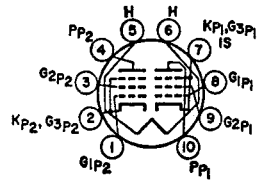
Refer to chart at end of section.
For replacement use type 6Y9/EFL200.

6Y9/EFL200

17Y9

DUAL PENTODE

Miniature type for use in color and black-and-white television receiver applications. Unit No. 1 is used as a video output pentode, and unit No. 2 as a sound if amplifier, agc amplifier, or sync separator. Outlines section, 6L, except has 10-pin base; requires miniature 10-contact socket. Type 17Y9 is identical with type 6Y9/EFL200 except for heater ratings.



10L

	6Y9/ EFL200	17Y9	
Heater Voltage	6.3	16.5	volts
Heater Current	0.8	0.3	ampere
Peak Heater-Cathode Voltage	±200	±200	volts
Direct Interelectrode Capacitances:			
Unit No.1:			
Plate to All Other Elements (except grid No.1)		7	pF
Grid No.1 to All Other Elements (except plate)		12	pF
Plate to Grid No.1		95	pF
Unit No.2:			
Plate to All Other Elements (except grid No.1)		11	pF
Grid No.1 to All Other Elements (except plate)		10	pF
Plate to Grid No.1		140	pF
Grid No.1 to Heater		<100	pF
Plate to Plate		<150	pF
Grid to Grid		<10	pF
Plate (Unit No.1) to Grid No.1 (Unit No.2)		<100	pF
Plate (Unit No.2) to Grid No.1 (Unit No.2)		<5	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)	Unit No.1	Unit No.2	
Plate Supply Voltage	550	550	volts
Plate Voltage	250	250	volts
Grid-No.2 (Screen-Grid) Supply Voltage	550	550	volts
Grid-No.2 Voltage	250	250	volts
Cathode Current	60	15	mA
Plate Dissipation	5	1.5	watts
Grid-No.2 Input	2.5	0.5	watts

CHARACTERISTICS

Plate Voltage	170	150	volts
Grid-No.2 Voltage	170	150	volts
Grid-No.1 (Control-Grid) Voltage	-2.6	-2.3	volts
Mu Factor, Grid-No.1 to Grid-No.2	38	35	
Internal Resistance	40	160	kohms
Transconductance	21000	8500	μmhos
Plate Current	30	10	mA
Grid-No.2 Current	6.5	3	mA

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance	1	1	megohm
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6Z4

Refer to chart at end of section.
For replacement use type 84/6Z4.

6Z5

Refer to chart at end of section.

6Z7G

Refer to chart at end of section.

6Z10

Refer to chart at end of section.