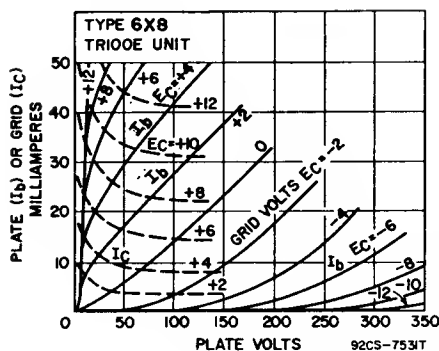
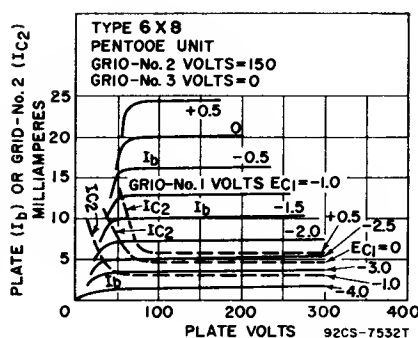
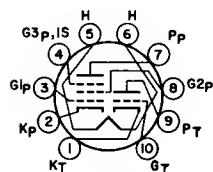




Refer to chart at end of section.



6X8



10K

HIGH-MU TRIODE— SHARP-CUTOFF PENTODE

Miniature type used as if-amplifier tube in television receivers. Outlines section 6B, except has 10-pin base; requires miniature 10-contact socket.

6X9/ ECF200

Heater Voltage	6.3	volts
Heater Current	0.41	ampere
Peak Heater-Cathode Voltage	±150 max	volts
Direct Interelectrode Capacitances:		
Triode Unit:		
Plate to All Other Elements (except grid)	3	pF
Grid to All Other Elements (except plate)	2.5	pF
Plate to Grid	2	pF
Pentode Unit:		
Plate to All Other Elements (except grid No.1)	3.5	pF
Grid No.1 to All Other Elements (except plate)	6.5	pF
Grid No.1 to Cathode	4	pF
Plate to Grid No.1	<6.5	pF
Grid No.1 to Grid No.2	1.8	pF
Pentode Grid No.1 to Triode Plate	15	fF
Pentode Grid No.1 to Triode Grid	<1.2	fF
Pentode Plate to Triode Plate	<1.5	fF

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.

6Y5

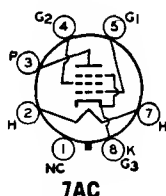
Refer to chart at end of section.

6Y6GA/ 6Y6G

BEAM POWER TUBE

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)	.....
Heater Current	.....
Peak Heater-Cathode Voltage	.....
Direct Interelectrode Capacitances (Approx.):	
Grid No.1 to Plate	.....
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	.....
Plate to Cathode, Heater, Grid No.2, and Grid No.3	.....



7AC

6.3	volts
1.25	amperes
±180 max	volts
0.7	pF
12	pF
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 98	
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 98	

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

6Y7G

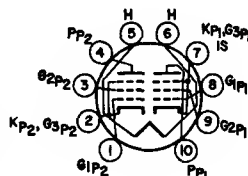
Refer to chart at end of section.

6Y9

11Y9/LFL200

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 11Y9/LFL200 is identical with type 6Y9 except for heater ratings.



10L

Heater Voltage	.....	6Y9	11Y9/LFL200	
Heater Current	.....	6.3	11	volts
Peak Heater-Cathode Voltage	.....	0.8	0.45	ampere
Direct Interelectrode Capacitances:		±200 max	±200 max	volts
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