7-contact socket. Type 12CR6 is identical with type 6CR6 except for heater ratings.

	6CR6	12CR6	
Heater Voltage (ac/dc)	6.3	12.6	volts
Heater Current	0.3	0.15	ampere
Peak Heater-Cathode Voltage	±100 max	±100 max	volts

Pentode Unit as Class A_1 Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	300	volts
Grid-No.2 (Screen-Grid) Voltage	See curve page 98	
Grid-No.2 Supply Voltage	300	volts
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Plate Dissipation	2.5	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 150 volts	0.3	watt
For grid-No.2 voltages between 150 and 300 volts	See curve page 98	

CHARACTERISTICS

Plate Voltage	250	volts
Grid-No.2 Voltage	100	volts
Grid-No.1 Voltage	—2	volts
Plate Resistance (Approx.)	0.8	megohm
Transconductance	2200	μmhos
Plate Current	9.6	mA
Grid-No.2 Current	2.6	mA
Grid-No.1 Voltage (Approx.) for transconductance of 10 μmhos	—32	volts

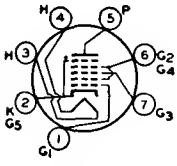
MAXIMUM CIRCUIT VALUES

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

Diode Unit

MAXIMUM RATINGS (Design-Center Values)

Plate Current	1	mA



7CH

6CS6

PENTAGRID AMPLIFIER

3CS6, 4CS6, 12CS6

Miniature type used as a gated amplifier in color and black-and-white television receivers. In such service, it may be used as a combined sync separator and sync clipper. Outlines section, 5C; requires miniature 7-contact socket. Types 3CS6, 4CS6, and 12CS6 are identical with type 6CS6 except for heater ratings.

	3CS6	4CS6	6CS6	12CS6	
Heater Voltage (ac/dc)	3.15	4.2	6.3	12.6	volts
Heater Current	0.6	0.45	0.3	0.15	ampere
Heater Warm-up Time (Average)	11	11	11	—	seconds
Heater-Cathode Voltage:					
Peak value	±200 max	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	100 max	volts

Direct Interelectrode Capacitances (Approx.)		
Grid No.1 to Plate	0.07 max	pF
Grid No.3 to Plate	0.36 max	pF
Grid No.1 to Grid No.3	0.22 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, Grid No.4, and Grid No.5	5.5	pF
Grid No.3 to Cathode, Heater, Grid No.1, Grid No.2, Grid No.4, and Grid No.5	7	pF
Plate to Cathode, Heater, Grid No.1, Grid No.2, Grid No.3, Grid No.4, and Grid No.5	7.5	pF

Class A_1 Amplifier

CHARACTERISTICS

Plate Voltage	100	100	volts
Grids-No.2-and-No.4 Voltage	30	30	volts
Grid-No.3 Voltage	—1	0	volt
Grid-No.1 Voltage	0	—1	volt
Plate Resistance (Approx.)	0.7	1	megohm
Grid-No.3-to-Plate Transconductance	1500	—	μmhos
Grid-No.1-to-Plate Transconductance	—	1100	μmhos
Plate Current	0.8	1	mA
Grids-No.2-and-No.-4 Current	5.5	1.3	mA