CHARACTERISTICS

Plate Voltage	250	volts
Grid-No.2 Voltage	80	volts
Grid-No.1 Voltage	—1	volt
Plate Resistance (Approx.)	0.15	megohm
Transconductance	8800	μmhos
Plate Current	11.5	mA
Grid-No.2 Current	0.9	mA
Grid-No.1 Voltage (Approx.) for transconductance of 100 μmhos	—4.5	volts

MAXIMUM CIRCUIT VALUE

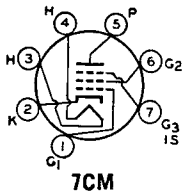
Grid-No.1-Circuit Resistance	0.5	megohm

Refer to chart at end of section.

6EV7

6EW6

5EW6



7CM

SHARP-CUTOFF PENTODE

Miniature type used in the gain-controlled picture-if stages of vhf color and black-and-white television receivers operating at an interemediate frequency in the order of 40 MHz. **Outlines section,** 5C; requires miniature 7-contact socket. Type 5EW6 is identical with type 6EW6 except for heater ratings.

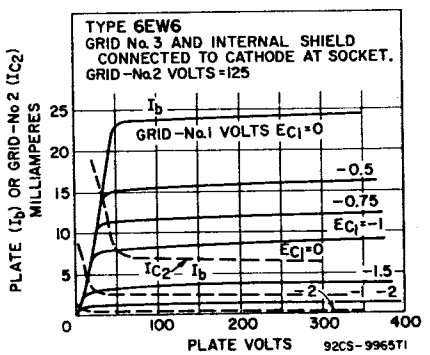
	5EW6	6EW6	
Heater Voltage (ac/dc)	5.6	6.3	volts
Heater Current	0.45	0.4	ampere
Heater Warm-up Time (Average)	11	—	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:	**Unshielded**	**Shielded***	
Grid No.1 to Plate	0.04 max	0.03 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	10	10	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2.4	3.4	pF

* With external shield connected to cathode.

Class A_1 Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330 volts
Grid No.3 (Suppressor-Grid) Voltage, Positive value	0 volts
Grid-No.2 (Screen-Grid) Supply Voltage	330 volts
Grid-No.2 Voltage	See curve page 300
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0 volts
Plate Dissipation	3.1 watts
Grid-No.2 Input:	
For grid-No.2 voltages up to 165 volts	0.65 watt
For grid-No.2 voltages between 165 and 330 volts	See curve page 300



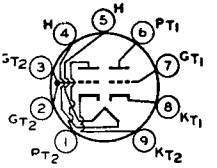
CHARACTERISTICS

Plate Supply Voltage	125	volts
Grid No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	0.2	megohm
Transconductance	14000	μmhos
Plate Current	11	mA
Grid-No.2 Current	3.2	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	−3.5	volts

6EW7

10EW7, 15EW7

DUAL TRIODE



9HF

Miniature type used as combined vertical-deflection oscillator and vertical-deflector amplifier in television receivers. **Outlines section,** 6E, requires miniature 9-contact socket. For curve of average plate characteristics, Unit No.1, refer to type 6DE7 (Unit No.1). Types 10EW7 and 15EW7 are identical with type 6EW7 except for heater ratings.

	6EW7	10EW7	15EW7	
Heater Voltage (ac/dc)	6.3	9.7	14.8	volts
Heater Current	0.9	0.6	0.45	ampere
Heater Warm-up Time	—	11	11	seconds
Heater-Cathode Voltage:				
Peak value	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	volts

Direct Interelectrode Capacitances (Approx.):	Unit No.1	Unit No.2	
Grid to Plate	4.2	9	pF
Grid to Cathode and Heater	2.2	7	pF
Plate to Cathode and Heater	0.4	1.2	pF

Class A_1 Amplifier

CHARACTERISTICS	Unit No.1	Unit No.2	
Plate Voltage	250	150	volts
Grid Voltage	−11	−17.5	volts
Amplification Factor	17.5	6	
Plate Resistance (Approx.)	8750	800	ohms
Transconductance	2000	7500	μmhos
Plate Current	5.5	45	mA
Plate Current for plate voltage of 60 volts and zero grid voltage	—	95	mA
Plate Current for grid voltage of −25 volts	—	8	mA
Grid Voltage (Approx.) for plate current of 10 μA	−20	—	volts
Grid Voltage (Approx.) for plate current of 100 μA	—	−40	volts