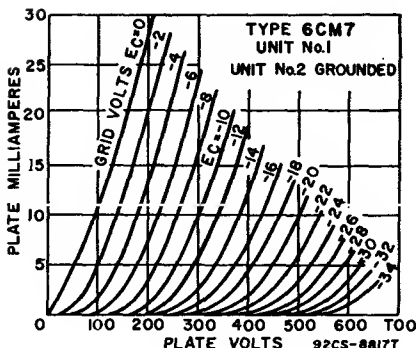
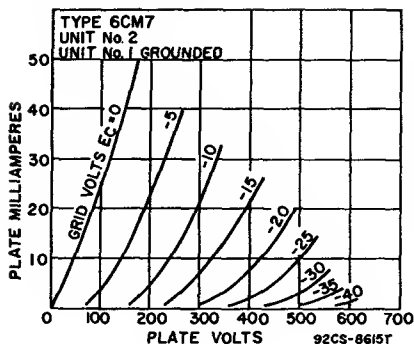


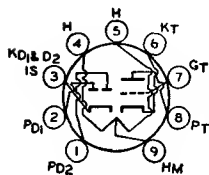


Refer to chart at end of section.

6CM8

TWIN DIODE— HIGH-MU TRIODE

6CN7



9EN

Miniature type used as combined horizontal phase detector and reactance tube in color and black-and-white television receivers. The triode unit is used in sync-separator, sync-amplifier, or audio amplifier circuits. Outlines section, 6B; requires miniature 9-contact socket. For typical operation of triode unit as resistance-coupled amplifier, refer to Resistance-Coupled Amplifier section.

Heater Voltage (ac/dc):

Series	6.3	volts
Parallel	3.15	volts

Heater Current:

Series	0.3	ampere
Parallel	0.6	ampere
Heater Warm-up Time (Average)	11	seconds

Heater-Cathode Voltage:

Peak value	±200 max	volts
Average value	100 max	volts

Direct Interelectrode Capacitances:

Triode Unit:		
Grid to Plate	1.8	pF
Grid to Cathode and Heater	1.5	pF
Plate to Cathode and Heater	0.5	pF

Diode Units:

Diode-No.1 Plate to Cathode of Diodes No.1 and No. 2, Heater, and Internal Shield	3.6	pF
Diode-No.2 Plate to Cathode of Diodes No.1 and No. 2, Heater, and Internal Shield	3.6	pF
Triode Grid to Either Diode Plate	0.006	pF

Triode Unit as Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	1.1	watt

CHARACTERISTICS

Plate Voltage	100	250	volts
Grid Voltage	-1	-3	volts
Amplification Factor	70	70	
Plate Resistance (Approx.)	54000	58000	ohms
Transconductance	1300	1200	μmhos
Plate Current	0.8	1	mA

Diode Units

MAXIMUM RATINGS (Design-Maximum Values)

Plate Current (Each Unit)	5.5	mA
---------------------------	-----	----