

TYPICAL OPERATION

Plate Voltage	120	volts
Grid-No.2 Voltage	110	volts
Grid-No.1 Voltage	—8	volts
Peak AF Grid-No.1 Voltage	8	volts
Zero-Signal Plate Current	49	mA
Maximum-Signal Plate Current	50	mA
Zero-Signal Grid-No.2 Current	4	mA
Maximum-Signal Grid-No.2 Current	8.5	mA
Plate Resistance (Approx.)	10000	ohms
Transconductance	7500	μ mhms
Load Resistance	2500	ohms
Total Harmonic Distortion	10	per cent
Maximum-Signal Power Output	2.3	watts

MAXIMUM CIRCUIT VALUES

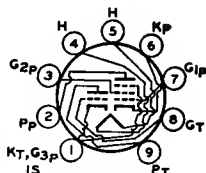
Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.5	megohm

6CU6

Refer to type 6BQ6GTB/6CU6.

6CU8**MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

Miniature type used in color and black-and-white television receiver applications. The pentode unit is used as an if amplifier, video amplifier, agc amplifier, and reactance tube. The triode unit is used in low-frequency oscillator, sync-separator, sync-clipper, and phase-splitter circuits. Outlines section, 6B; requires miniature 9-contact socket.

**9GM**

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.45	ampere
Heater-Cathode Voltage:		
Peak value	± 200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Triode Unit:		
Grid to Plate	1.6	pF
Grid to Cathode, Heater, Pentode Grid No.3, and Internal Shield	1.9	pF
Plate to Cathode, Heater, Pentode Grid No.3 and Internal Shield	1.6	pF
Pentode Unit:		
Grid No.1 to Plate	0.025 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, Triode Cathode, and Internal Shield	7	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, Triode Cathode, and Internal Shield	2.4	pF
Pentode Grid No.1 to Triode Plate	0.03 max	pF
Pentode Plate to Triode Plate	0.07 max	pF

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

	Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 Supply Voltage	—	330	volts
Grid-No.2 (Screen-Grid) Voltage	—	See curve page 98	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2.8	2.3	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	0.55	watt
For grid-No.2 voltages between 165 and 330 volts	—	See curve page 98	

CHARACTERISTICS

Plate Supply Voltage	125	125	volts
Grid-No.2 Supply Voltage	—	125	volts
Grid-No.1 Voltage	—1	—	volts
Cathode-Bias Resistor	—	56	ohms
Amplification Factor	24	—	
Plate Resistance (Approx.)	4100	17000	ohms
Transconductance	5800	7800	μ mhms
Plate Current	17	12	mA
Plate Current for grid-No.1 voltage of —3 volts	—	—1.6	mA
Grid-No.2 Current	—	3.8	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μ A	—19	—8	volts