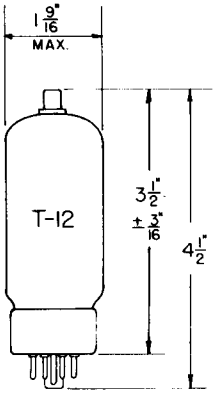
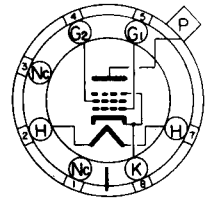
TUNG-SOL

PENTODE



GLASS BULB



BOTTOM VIEW
SHORT MEDIUM SHELL
7 PIN OCTAL
6AM

THE 6CU6 IS A BEAM-POWER TUBE INTENDED FOR USE AS A HORIZONTAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. IT IS DESIGNED TO PROVIDE LONGER LIFE AT HIGH-LINE CONDITIONS AND INCREASED RUGGEDNESS TO WITHSTAND MOMENTARY OVERLOADS.

DIRECT INTERELECTRODE CAPACITANCES

WITH NO EXTERNAL SHIELD

GRID #1 TO PLATE: G_1 TO P	0.6 ←	μμf
INPUT: G_1 TO (H+K+G_2+BP)	15 ←	μμf
OUTPUT: P TO (H+K+G_2+BP)	7 ←	μμf

RATINGS[A]

INTERPRETED ACCORDING TO RETMA STANDARD M8-210

HORIZONTAL DEFLECTION AMPLIFIER[B]

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM DC PLATE SUPPLY VOLTAGE (BOOST+POWER SUPPLY)	600 ←	VOLTS
MAXIMUM PEAK POSITIVE PLATE VOLTAGE (ABSOLUTE MAXIMUM)	6 000	VOLTS
MAXIMUM PEAK NEGATIVE PLATE VOLTAGE	1 250	VOLTS
MAXIMUM PLATE DISSIPATION[C]	11	WATTS
MAXIMUM PEAK NEGATIVE GRID #1 VOLTAGE	300	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	200 ←	VOLTS
MAXIMUM GRID #2 DISSIPATION	2.5	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	110	MA.
MAXIMUM PEAK CATHODE CURRENT	400	MA.
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.47	MEGOHM
MAXIMUM BULB TEMPERATURE (AT HOTTEST POINT)	220	°C

[A] DESIGN CENTER VALUES EXCEPT WHERE ABSOLUTE MAXIMUM IS STATED.

[B] FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCASTING STATIONS; FEDERAL COMMUNICATIONS COMMISSION". THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% (10 MICROSECONDS) OF A SCANNING CYCLE.

[C] IN STAGES OPERATING WITH GRID-LEAK BIAS, AN ADEQUATE CATHODE-BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

CONTINUED ON FOLLOWING PAGE.

→INDICATES A CHANGE.

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS ←

PENTODE OPERATION: WITH E_b = 250V., E_{c2} = 150V. AND E_{c1} = -22.5V.		
PLATE CURRENT	57	MA.
GRID #2 CURRENT	2.1	MA.
TRANSCONDUCTANCE	5 900	μMHOS
PLATE RESISTANCE (APPROX.)	14 500	OHMS
ZERO BIAS: WITH E_b = 60V. AND E_{c2} = 150V. (INSTANTANEOUS VALUES)		
PLATE CURRENT	260	MA.
GRID #2 CURRENT	26	MA.
CUT-OFF: FOR I_b = 1 MA., WITH E_b = 250V. AND E_{c2} = 150V.		
GRID #1 VOLTAGE (APPROX.)	-43	VOLTS
TRIODE μ: WITH E_b = E_{c2} = 150V. AND E_{c1} = -22.5V.	4.3	

SIMILAR TYPE REFERENCE. Except for heater operation the 6CU6 is identical to the 12CU6 and 25CU6. It is a rugged replacement for the 6BQ6GT.

→INDICATES A CHANGE.