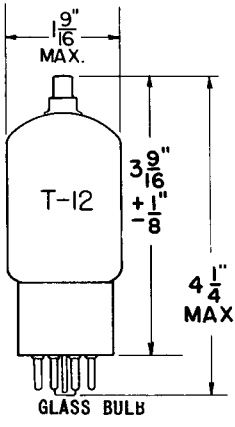
TUNG-SOL

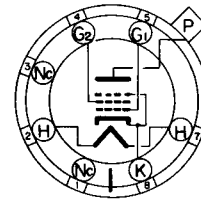
PENTODE



COATED UNIPOTENTIAL CATHODE

HEATER
25 VOLTS 0.3 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
INTERMEDIATE SHELL
7 PIN OCTAL
6AM

THE 25CU6 IS A BEAM POWER AMPLIFIER DESIGNED FOR USE AS THE HORIZONTAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS EMPLOYING SERIES-STRING HEATER ARRANGEMENTS.

DIRECT INTERELECTRODE CAPACITANCES
WITH NO EXTERNAL SHIELD

GRID #1 TO PLATE: G_1 TO P	0.55	μμf
INPUT: G_1 TO (H+K+G_2+BP)	15.0	μμf
OUTPUT: P TO (H+K+G_2+BP)	7.0	μμf

RATINGS[A]
INTERPRETED ACCORDING TO RETMA STANDARD M8-210

HORIZONTAL DEFLECTION AMPLIFIER[B]

HEATER VOLTAGE	25	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)	550	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	175	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.

TUNG-SOL

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	55	MA.
GRID #2 CURRENT	2.1	MA.
TRANSCONDUCTANCE	5 500	μMHOS
PLATE RESISTANCE (APPROX.)	20 000	OHMS
ZERO BIAS: WITH E_b = 60V. AND E_{c2} = 150V. (INSTANTANEOUS VALUES)		
PLATE CURRENT	225	MA.
GRID #2 CURRENT	25	MA.
CUT-OFF: FOR I_b = 1 MA., WITH E_b = 250V. AND E_{c2} = 150V.		
GRID #1 VOLTAGE (APPROX.)	-46	VOLTS
TRIODE μ: WITH E_b = E_{c2} = 150V. AND E_{c1} = 22.5V.	4.3	

HORIZONTAL DEFLECTION AMPLIFIER - SCANNING 70° CRT

HEATER VOLTAGE	25	VOLTS
HEATER CURRENT	0.3	AMP.
PLATE SUPPLY VOLTAGE	310	VOLTS
AVERAGE PLATE VOLTAGE (BOOST + SUPPLY)	540	VOLTS
PEAK POSITIVE PLATE VOLTAGE (DC COMPONENT + PULSE)	4.6	KV.
AVERAGE PLATE CURRENT	79	MA.
PEAK PLATE CURRENT	270	MA.
PLATE DISSIPATION	7	WATTS
GRID #2 VOLTAGE	140	VOLTS
GRID #2 CURRENT	11±2	MA.
GRID #2 DISSIPATION	1.57	WATTS
GRID INPUT VOLTAGE:		
PEAK TO PEAK	130	VOLTS
SAWTOOTH COMPONENT	65	VOLTS
ANODE VOLTAGE CRT	15.7	KV.
ANODE CURRENT CRT	100	μA.

SIMILAR TYPE REFERENCE: Except for heater operation the 25CU6 is identical to the 6CU6 and 12CU6.