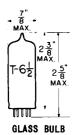
TUNG-SOL .

BEAM PENTODE

MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.45 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE
9ck

THE 6CM6 IS A BEAM POWER AMPLIFIER USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE AS A GENERAL PURPOSE AUDIO POWER AMPLIFIER OR VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVER SWEEP CIRCUITS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID TO PLATE: G TO P	0.7	μμf
INPUT: G4 TO (H+K+G2&G3)	8.0	μμ f
OUTPUT: P TO (H+K+G2&G3)	8.5	μμf

RATINGS^A INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

VERTICAL DEFLECTION AMPLIFIER^B

	PENTODE CONNECTION	TRIODE CONNECTION	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM HEATER—CATHODE VOLTAGE: HEATER POSITIVE			
DC	100	100	VOL TS
TOTAL DC AND PEAK HEATER NEGATIVE	200	200	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS
MAXIMUM PEAK POSITIVE PLATE VOLTAGE (ABSOLUTE MA)	(•) 2	2	KV.
MAXIMUM DC GRID #2 VOLTAGE	285		VOLTS
MAXIMUM PLATE DISSIPATION ^C	8	→ 9.0	WATTS
MAXIMUM GRID #2 DISSIPATION ^C	1.75		WATTS
MAXIMUM PEAK NEGATIVE GRID #1 VOLTAGE	250	250	VOLTS
MAXIMUM AVERAGE CATHODE CURRENT	40	40	MA.
MAXIMUM PEAK CATHODE CURRENT	120	120	MA.
MAXIMUM GRID #4 CIRCUIT RESISTANCE (CATHODE BIAS	3) 2.2	2.2	MEGOHMS

ATHESE ARE DESIGN CENTER VALUES EXCEPT WHERE ABSOLUTE MAXIMUM IS INDICATED.

CLASS A1 AMPLIFIER

MAXIMUM PLATE VOLTAGE	315	VOLTS
MAXIMUM GRID #2 VOLTAGE	285	VOLTS
MAXIMUM PLATE DISSIPATION	12	WATTS
MAXIMUM GRID #2 DISSIPATION	2	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE		
FIXED BIAS	0.1	ME GOHM
CATHODE B1AS	0.5	MEGOHM

CONTINUED ON FOLLOWING PAGE

B for operation in a 525-line, 30-frame system as described in "standards of good engineering practice concerning television broadcasting stations: federal communications commission". The duty cycle of the voltage pulse is not to exceed 15% of one scanning cycle.

 $^{^{\}rm C}$ IN STAGES OPERATING WITH A GRID-LEAK BIAS, AN ADEQUATE CATHODE-BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

TUMB-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER - SINGL	F TUBE	
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HEATER VOLTAGE	6.3	6.3	6.3	VOL TS
HEATER CURRENT	0.45	0.45	0.45	AMP.
PLATE VOLTAGE	180	250	315	VOLTS
GRID #2 VOLTAGE	180	250	225	VOLTS
GRID #1 VOLTAGE	 8.5	-12.5	-13.0	VOLTS
PEAK AF GRID #1 VOLTAGE	8.5	12.5	13.0	VOLTS
ZERO-SIGNAL PLATE CURRENT	29	45	34	MA.
MAXIMUM SIGNAL PLATE CURRENT	30	47	35	MA .
ZERO-SIGNAL GRID #2 CURRENT	3.0	4.5	2.2	MA.
MAXIMUM SIGNAL GRID #2 CURRENT	4.0	7.0	6.0	MA.
PLATE RESISTANCE	50	50	80	KILOHMS
TRANSCONDUCTANCE	3 700	4 100	3 750	µмноs
LOAD RESISTANCE	5 500	5 000	8 500	OHMS
POWER OUTPUT (MAXIMUM SIGNAL)	2.0	4.5	5.5	WATTS
TOTAL HARMONIC DISTORTION	8	8	12	PERCENT

TRIODE CONNECTED*

PLATE VOLTAGE	250	VOLTS
GRID VOLTAGE	-12.5	VOLTS
PLATE CURRENT	49.5	MA.
TRANSCONDUCTANCE	5 000	μMHOS
AMPLIFICATION FACTOR	9.8	
PLATE RESISTANCE (APPROX.)	1 960	OHMS
GRID VOLTAGE (APPROX.) FOR Ib = 0.5 MA	-37	VOLTS

^{*}INDICATES AN ADDITION.