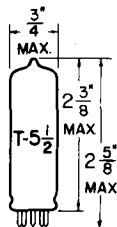


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

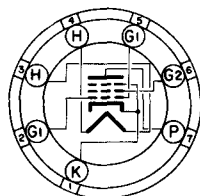
COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.04 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON
7 PIN BASE

7CV

THE 12AS5 IS A HEATER-CATHODE, BEAM PENTODE POWER AMPLIFIER IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS AN OUTPUT TUBE IN AUTOMOBILE AND AC OPERATED RECEIVERS. EXCEPT FOR HEATER CHARACTERISTICS, THE 12AS5 IS IDENTICAL TO THE 6AS5.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

GRID #1 TO PLATE: (G1 TO P)	0.6	μf
INPUT: G1 TO (H+K+G2+G3)	12	μf
OUTPUT: P TO (H+K+G2+G3)	6.2	μf

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER MAXIMUM SYSTEM

HEATER VOLTAGE	12.6	VOLTS
MAXIMUM PLATE VOLTAGE	150	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	150	VOLTS
MAXIMUM GRID #2 VOLTAGE	SEE GRID #2 RATING CURVE	
MAXIMUM PLATE DISSIPATION	5.5	WATTS
MAXIMUM GRID #2 DISSIPATION	1.0	WATT
MAXIMUM GRID #1 CIRCUIT RESISTANCE:		
FIXED BIAS	0.1	MEGOHM
SELF BIAS	0.5	MEGOHM
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	90	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	90	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**CLASS A₁ AMPLIFIER**

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.4	VOLTS
PLATE VOLTAGE	150	VOLTS
GRID #2 VOLTAGE	110	VOLTS
GRID #1 VOLTAGE ^A	-8.5	VOLTS
PEAK AF GRID #1 VOLTAGE	8.5	VOLTS
ZERO-SIGNAL PLATE CURRENT	35	MA.
MAX. SIGNAL PLATE CURRENT	36	MA.
ZERO-SIGNAL GRID #2 CURRENT (APPROX.)	2	MA.
MAX.-SIGNAL GRID #2 CURRENT (APPROX.)	6.5	MA.
TRANSCONDUCTANCE	5600	μMHOS
LOAD RESISTANCE	4500	OHMS
TOTAL HARMONIC DISTORTION	10	PERCENT
MAX.-SIGNAL POWER OUTPUT	2.2	WATTS

^AUNDER MAX. RATED CONDITIONS THE DC RESISTANCE OF THE GRID #1 CIRCUIT SHOULD NOT EXCEED 0.1 MEG. FOR FIXED BIAS OPERATION OR 0.5 MEG. FOR CATHODE BIAS OPERATION.

12AS5
Grid #2 Rating Curve

