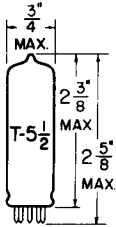


**TUNG-SOL**

**PENTODE**  
MINIATURE TYPE



**GLASS BULB**

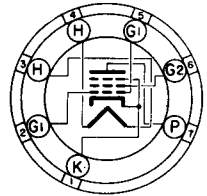
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.8 AMP.

AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**  
MINIATURE BUTTON  
7 PIN BASE  
7CV

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

**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)	9.0 ←	μf

**RATINGS**

INTERPRETED ACCORDING TO DESIGN CENTER MAXIMUM SYSTEM

HEATER VOLTAGE	6.3	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	100 ←	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	100 ←	VOLTS

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE.

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## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

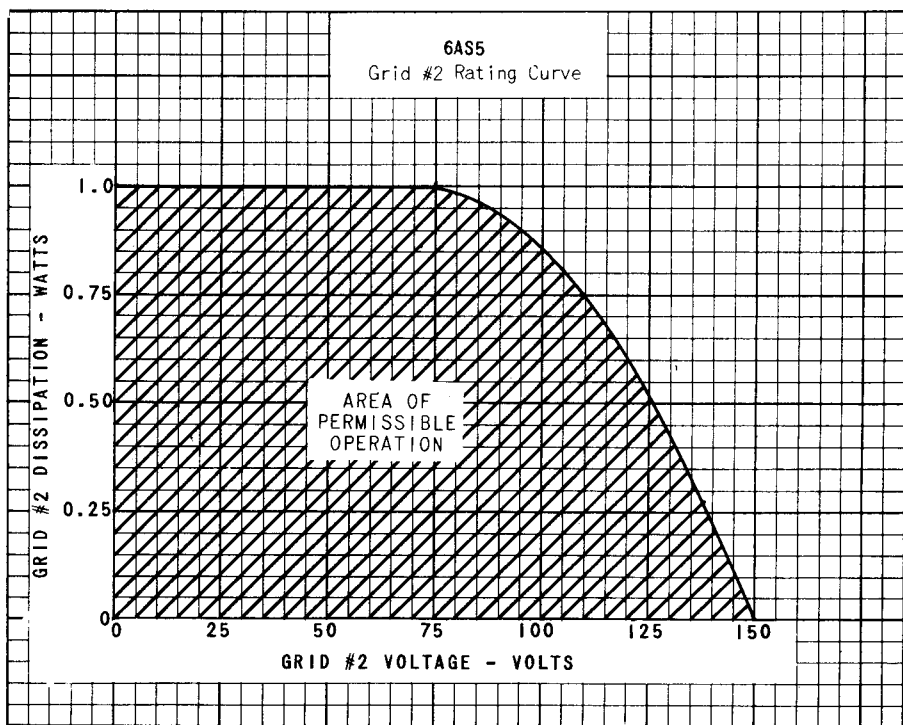
## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

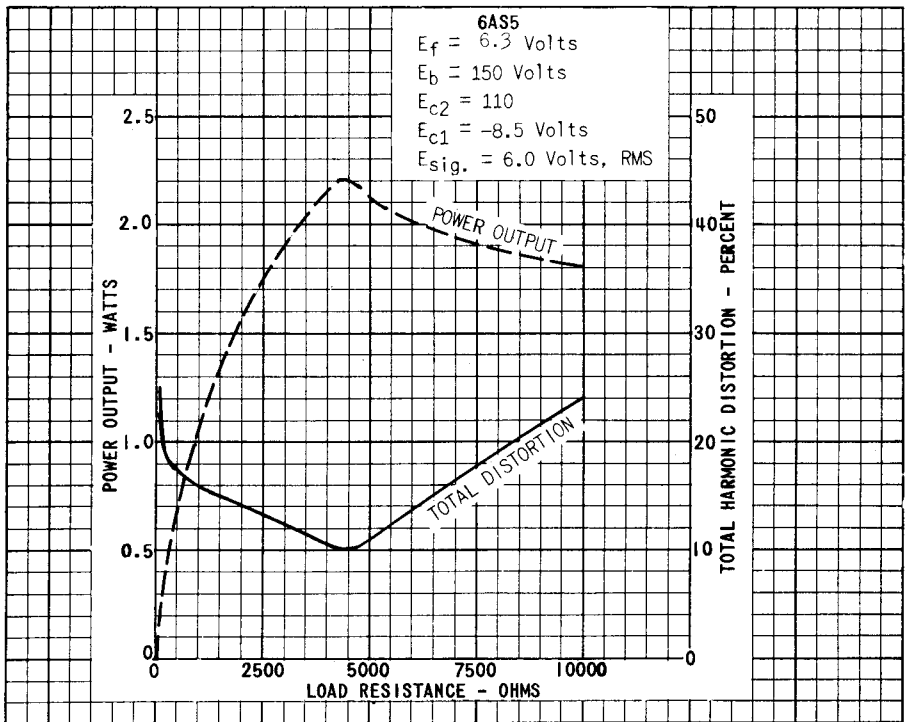
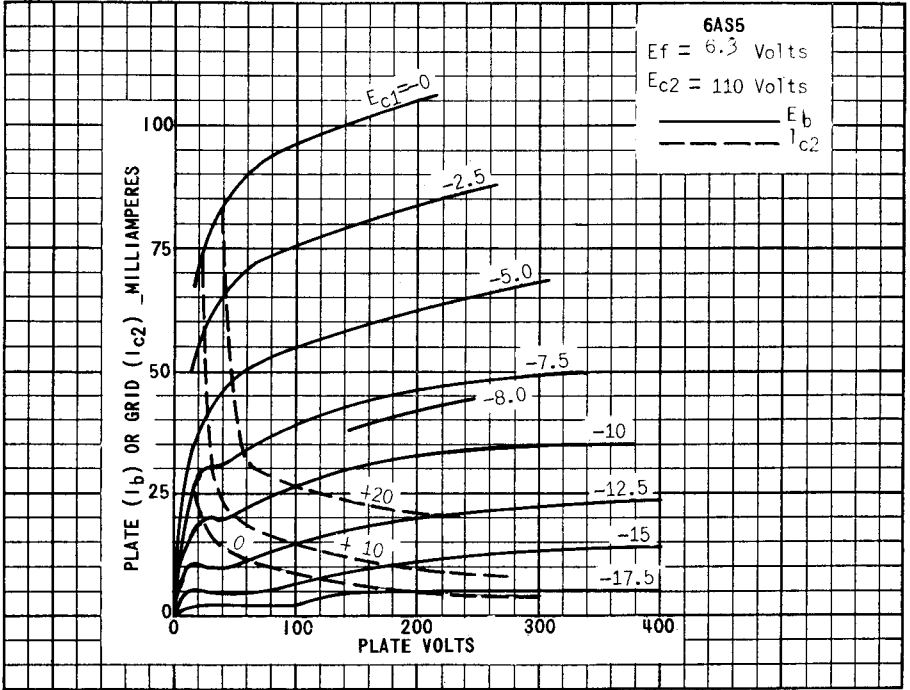
CLASS  $A_1$  AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.8	VOLTS
PLATE VOLTAGE	150	VOLTS
GRID #2 VOLTAGE	110	VOLTS
GRID #1 VOLTAGE <sup>A</sup>	-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	$\mu$ MHOS
LOAD RESISTANCE	4500	OHMS
TOTAL HARMONIC DISTORTION	10	PERCENT
MAX.-SIGNAL POWER OUTPUT	2.2	WATTS

<sup>A</sup> UNDER 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.

6AS5  
Grid #2 Rating Curve





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