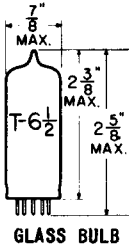
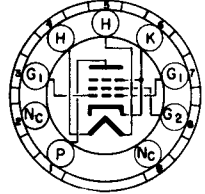


**TUNG-SOL**

**PENTODE**  
MINIATURE TYPE



COATED UNIPOTENTIAL CATHODE  
HEATER  
6.3 VOLTS 1.2 AMP.  
AC OR DC  
ANY MOUNTING POSITION



**BOTTOM VIEW**  
MINIATURE BUTTON  
9 PIN BASE

98Q

THE 6BK5 IS A BEAM POWER AMPLIFIER UTILIZING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR USE IN THE POWER OUTPUT STAGE OF TELEVISION AND RADIO RECEIVERS. IN WHICH ONLY SMALL DRIVING VOLTAGES ARE AVAILABLE. IT CAN ALSO BE USED AS A VIDEO AMPLIFIER IN TELEVISION RECEIVERS.

**DIRECT INTERELECTRODE CAPACITANCES**  
WITH NO EXTERNAL SHIELD

GRID #1 TO PLATE: $G_1$ TO P	0.06	$\mu\text{mf}$
INPUT: $G_1$ TO (H+K+G <sub>2</sub> +G <sub>3</sub> )	13	$\mu\text{mf}$
OUTPUT: P TO (H+K+G <sub>2</sub> +G <sub>3</sub> )	5	$\mu\text{mf}$

**RATINGS**

INTERPRETED ACCORDING TO DESIGN CENTER VALUES

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	100	VOLTS
DC	200	VOLTS
TOTAL DC AND PEAK		
MAXIMUM PLATE VOLTAGE	250	VOLTS
MAXIMUM GRID #2 VOLTAGE	250	VOLTS
MAXIMUM POSITIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	9	WATTS
MAXIMUM GRID #2 DISSIPATION	2.5	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE:		
FIXED BIAS OPERATION	0.1	MEGOHM
CATHODE BIAS OPERATION	0.5	MEGOHM

→ INDICATES A CHANGE.

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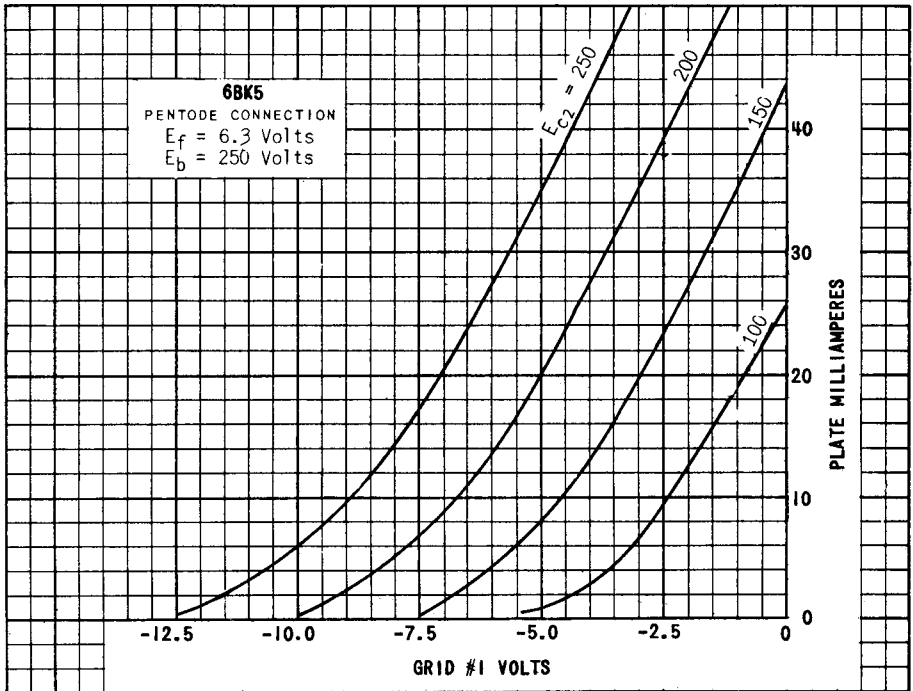
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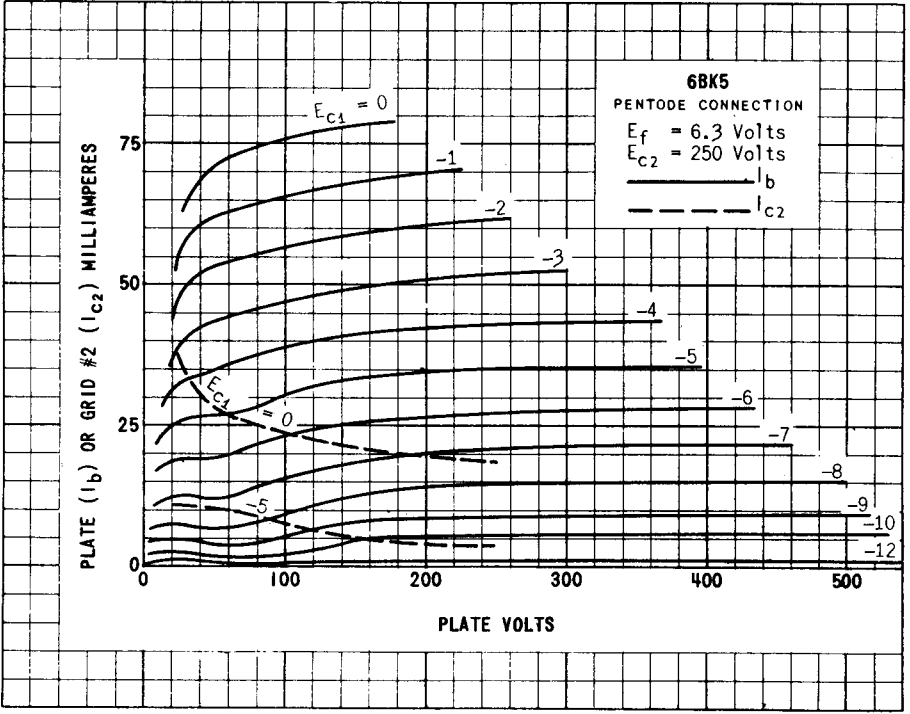
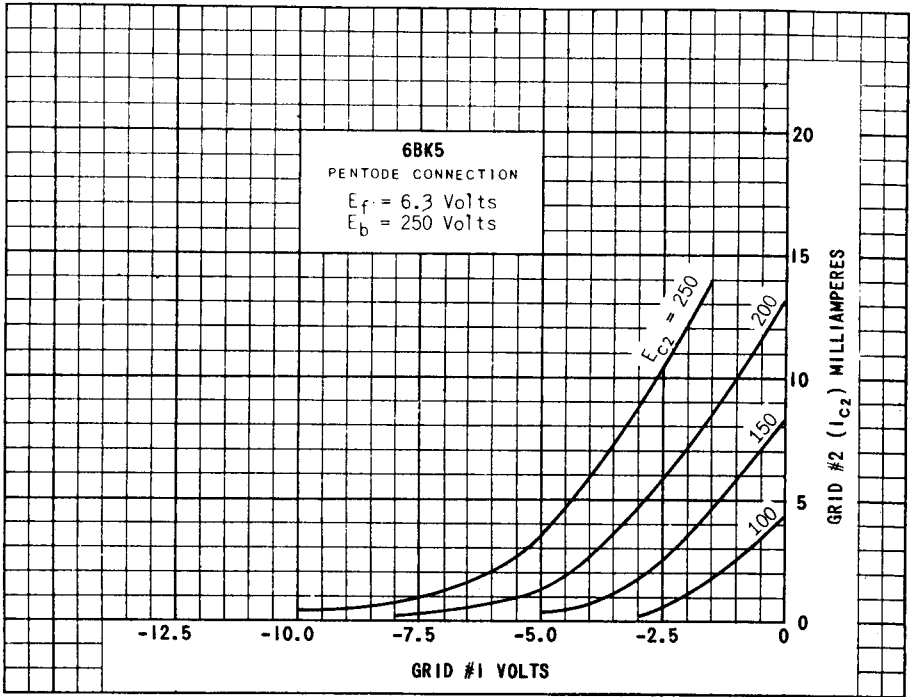
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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.2	AMP.
PLATE VOLTAGE	250	VOLTS
GRID #2 VOLTAGE	250	VOLTS
GRID #1 VOLTAGE	-5	VOLTS
PEAK AF GRID #1 VOLTAGE	5	VOLTS
PLATE RESISTANCE (APPROX.)	100 000	OHMS
TRANSCONDUCTANCE	8 500	$\mu$ MHOS
ZERO-SIGNAL PLATE CURRENT	35	MA.
MAXIMUM SIGNAL PLATE CURRENT (APPROX.)	37	MA.
ZERO-SIGNAL GRID #2 CURRENT	3.5	MA.
MAXIMUM SIGNAL GRID #2 CURRENT (APPROX.)	10	MA.
LOAD RESISTANCE	6 500	OHMS
TOTAL HARMONIC DISTORTION (APPROX.)	7	PERCENT
POWER OUTPUT	3.5	WATTS





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PLATE 3187

# 6BK5 (25BK5)

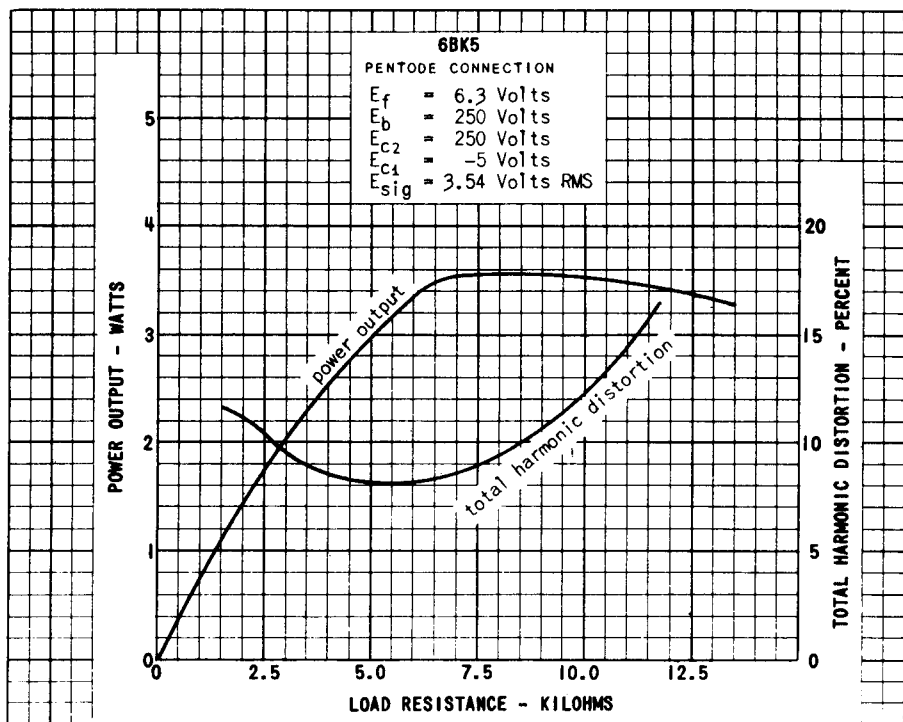
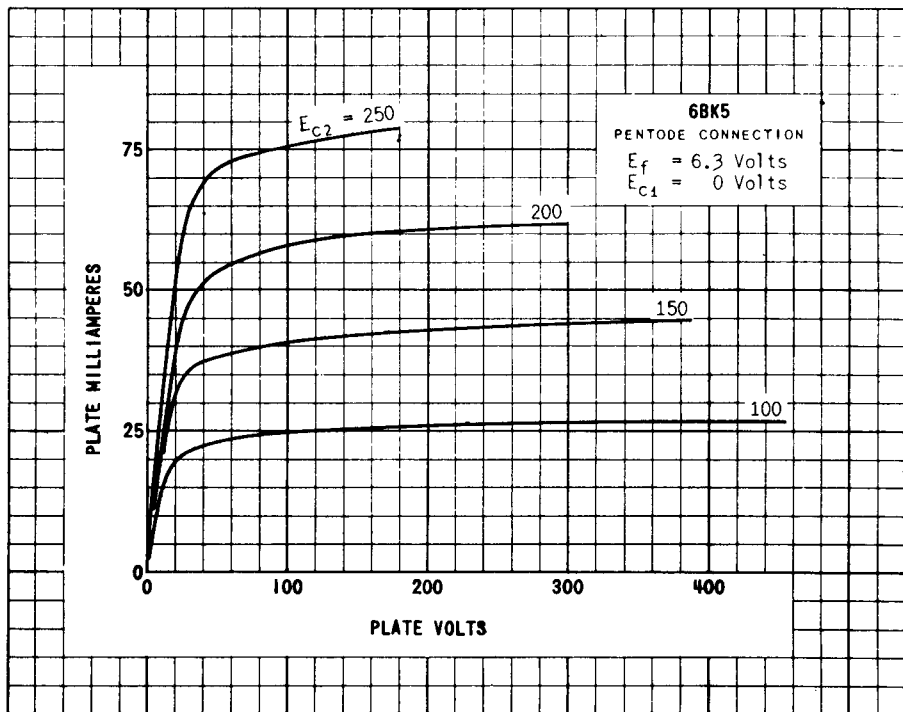


PLATE 3188