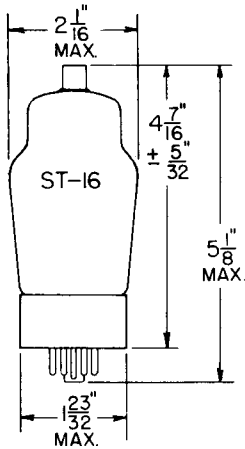


**TUNG-SOL**



**GLASS BULB**  
SMALL CAP

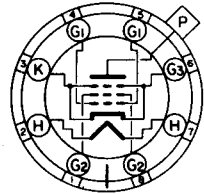
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 2.5 AMP.

AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**  
SHORT JUMBO SHELL  
8 PIN OCTAL

860

THE 6CB5 IS A HIGH-PERVEANCE BEAM POWER TUBE. IT IS DESIGNED FOR USE AS A HORIZONTAL-DEFLECTION AMPLIFIER TUBE IN COLOR TELEVISION. ITS FEATURES INCLUDE LOW AMPLIFICATION, HIGH PLATE CURRENT AT LOW PLATE VOLTAGE, AND A HIGH OPERATING RATIO OF PLATE CURRENT TO GRID #2 CURRENT.

**DIRECT INTERELECTRODE CAPACITANCES** — APPROX.  
WITH NO EXTERNAL SHIELD

GRID #1 TO PLATE	0.8	$\mu\mu f$
INPUT	24	$\mu\mu f$
OUTPUT	10	$\mu\mu f$

**RATINGS**

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM<sup>A</sup>  
HORIZONTAL DEFLECTION AMPLIFIER<sup>B</sup>

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK-HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	200	VOLTS
DC COMPONENT	100	VOLTS
MAXIMUM PLATE SUPPLY VOLTAGE (DC AND BOOST)	700	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABSOLUTE MAXIMUM)	6 800 <sup>D</sup>	VOLTS
MAXIMUM PEAK NEGATIVE PULSE PLATE VOLTAGE	-1 500	VOLTS
MAXIMUM DC GRID #2 VOLTAGE	200	VOLTS
MAXIMUM DC GRID #1 VOLTAGE	-50	VOLTS
MAXIMUM PEAK NEGATIVE PULSE GRID #1 VOLTAGE	-200	VOLTS
MAXIMUM DC PLATE CURRENT	200	MA.
MAXIMUM GRID #2 INPUT	3.6	WATTS
MAXIMUM PLATE DISSIPATION	23	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.47	MEG OHM

<sup>A</sup> EXCEPT AS NOTED.

<sup>B</sup> FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE CONCERNING TELEVISION BROADCAST STATIONS", FEDERAL COMMUNICATIONS COMMISSION.

<sup>C</sup> THE DURATION OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE HORIZONTAL SCANNING CYCLE. IN A 525-LINE, 30-FRAME SYSTEM, 15% OF ONE HORIZONTAL SCANNING CYCLE IS 10 MICROSECONDS.

<sup>D</sup> UNDER NO CIRCUMSTANCES SHOULD THIS ABSOLUTE VALUE BE EXCEEDED.

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

FORM 10-10-54

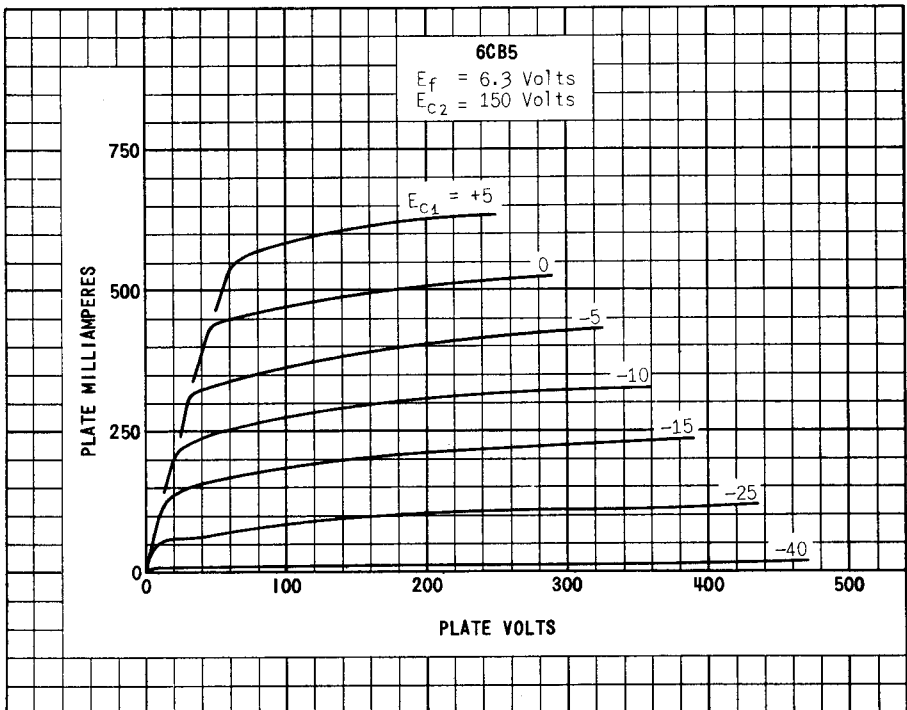
## TUNG-SOL

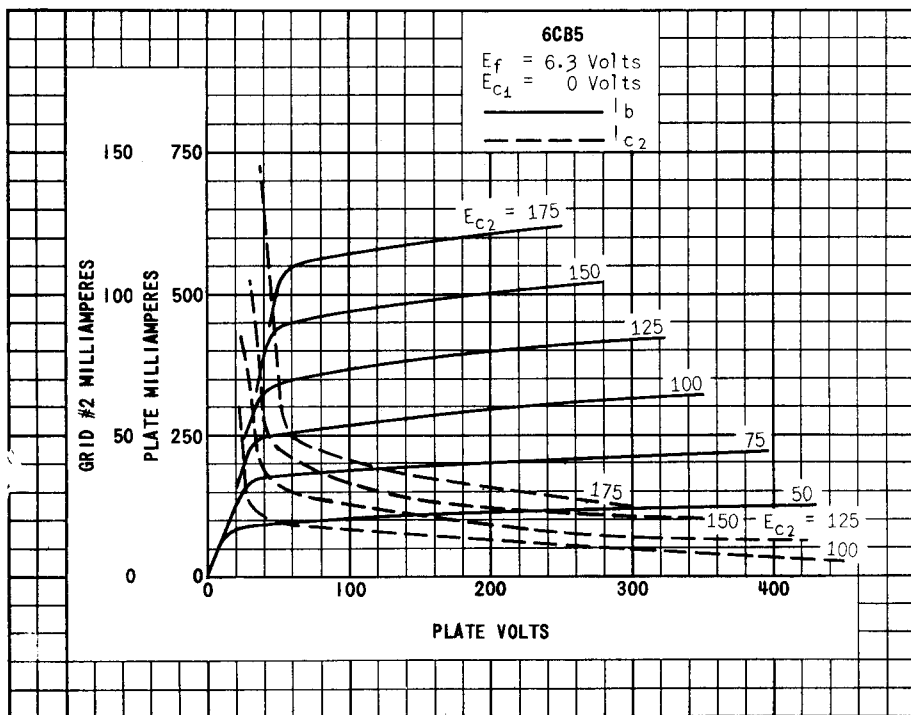
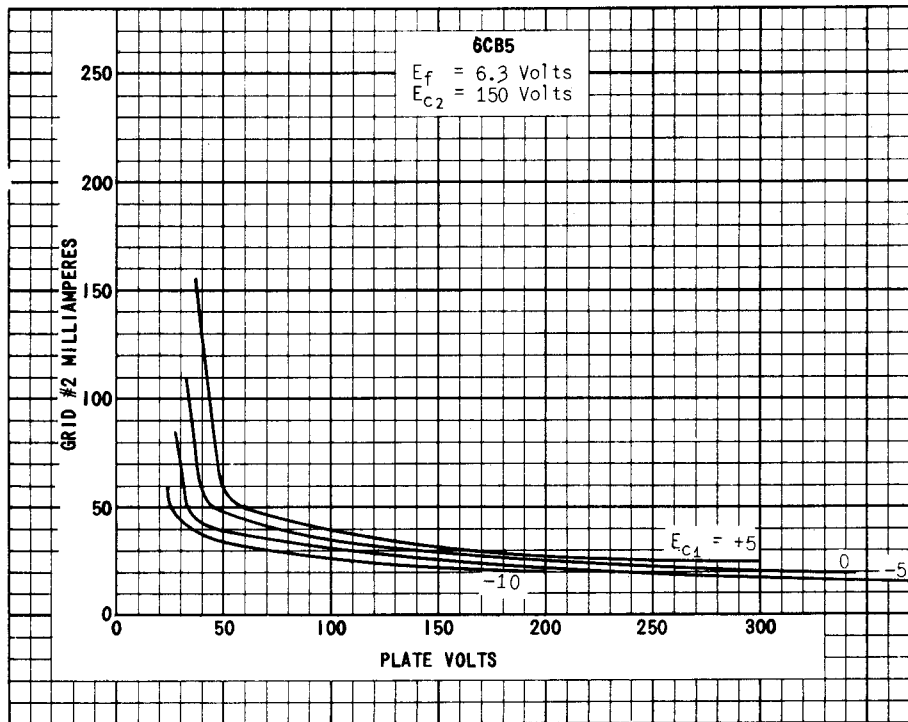
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## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	2.5	AMP.
PLATE VOLTAGE	175	VOLTS
GRID #2 VOLTAGE	175	VOLTS
GRID #1 VOLTAGE	-30	VOLTS
AMPLIFICATION FACTOR ( $G_2$ TO $G_1$ )	3.8	
PLATE RESISTANCE (APPROX.)	5 000	OHMS
TRANSCONDUCTANCE	8 800	$\mu$ MHOS
GRID BIAS (APPROX.) FOR $I_b = 1$ MA.	-60	VOLTS
PLATE CURRENT	90	MA.
GRID #2 CURRENT	6	MA.





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