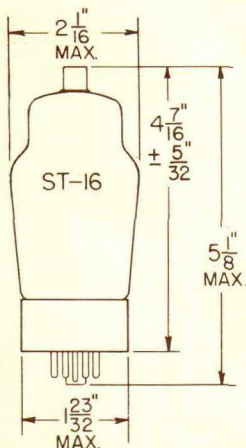


## TUNG-SOL



GLASS BULB  
SMALL CAP

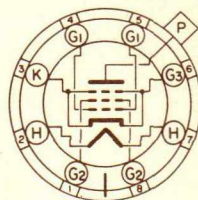
COATED UNIPOTENTIAL CATHODE

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 | $\mu$ f |
| INPUT            | 24  | $\mu$ f |
| OUTPUT           | 10  | $\mu$ 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               | MEGOHM |

<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.

CONTINUE ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## 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.        |

