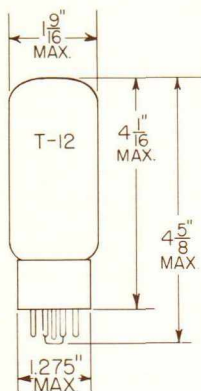


## TUNG-SOL

## BEAM PENTODE



GLASS BULB

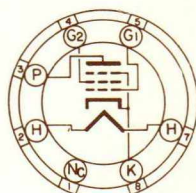
COATED UNIPOTENTIAL CATHODE

HEATER

50 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SHORT MEDIUM SHELL  
7 PIN OCTAL

75

THE 50C6GA IS A BEAM POWER AMPLIFIER HAVING HIGH POWER SENSITIVITY AND HIGH POWER OUTPUT AT COMPARATIVELY LOW DC SUPPLY VOLTAGES. EXCEPT FOR ITS T-12 ENVELOPE THE 50C6GA IS IDENTICAL TO THE 50C6G.

## RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

|                                         |                  |        |
|-----------------------------------------|------------------|--------|
| HEATER VOLTAGE                          | 50               | VOLTS  |
| MAXIMUM HEATER-CATHODE VOLTAGE:         |                  |        |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | 180              | VOLTS  |
| HEATER POSITIVE WITH RESPECT TO CATHODE | 180              | VOLTS  |
| MAXIMUM PLATE VOLTAGE                   | 200              | VOLTS  |
| MAXIMUM GRID #2 SUPPLY VOLTAGE          | 200              | VOLTS  |
| MAXIMUM GRID #2 VOLTAGE                 | SEE RATING CHART |        |
| MAXIMUM PLATE DISSIPATION               | 12.5             | WATTS  |
| MAXIMUM GRID #2 DISSIPATION             | 1.75             | WATTS  |
| MAXIMUM GRID #1 CIRCUIT RESISTANCE:     |                  |        |
| FIXED BIAS                              | 0.1              | MEGOHM |
| SELF BIAS                               | 0.5              | MEGOHM |

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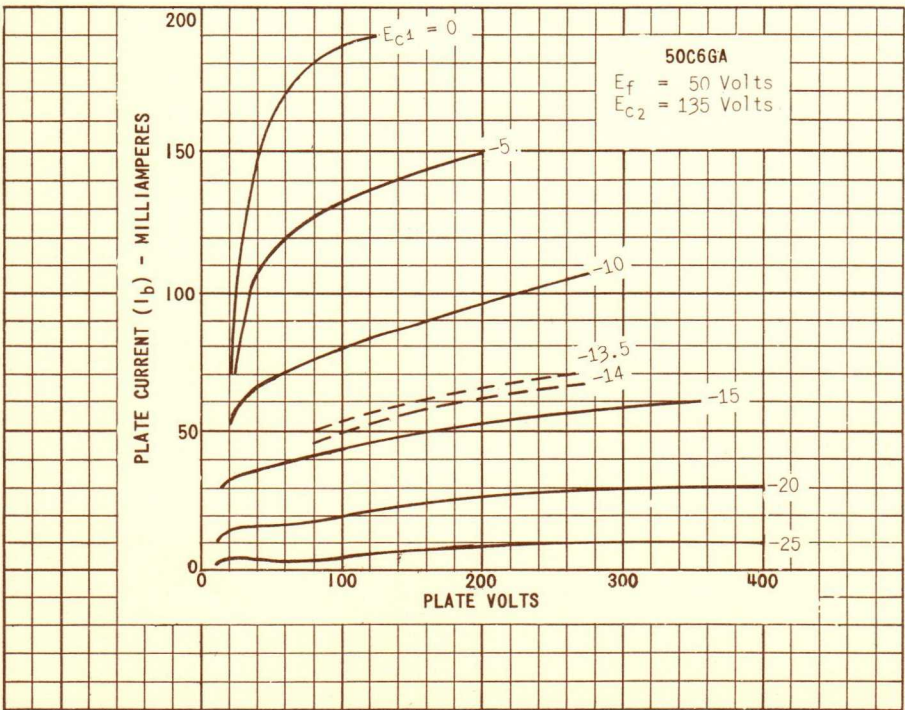
TUNG-SOL

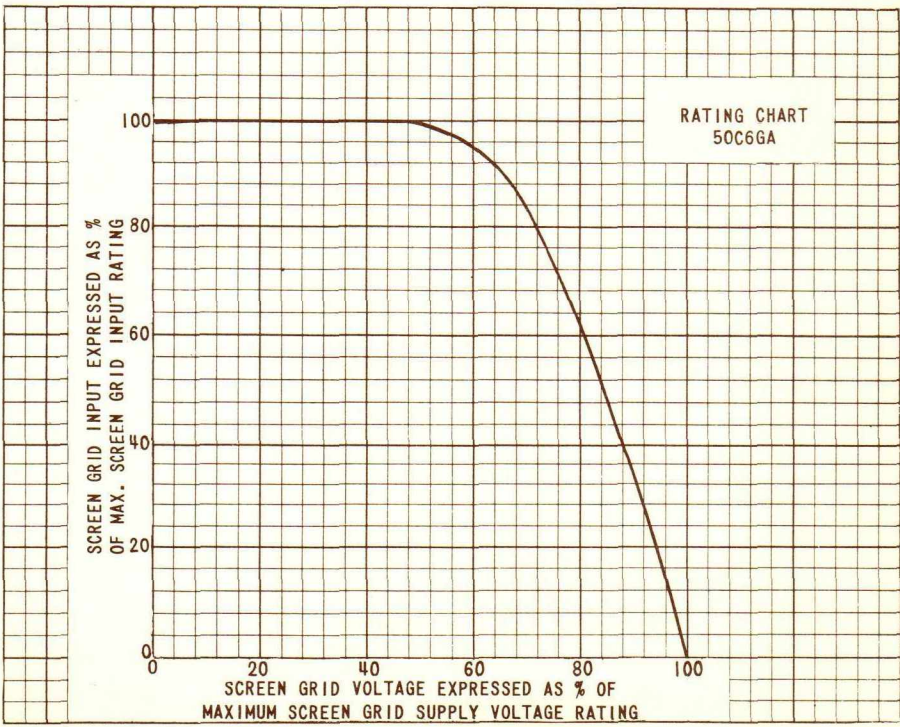
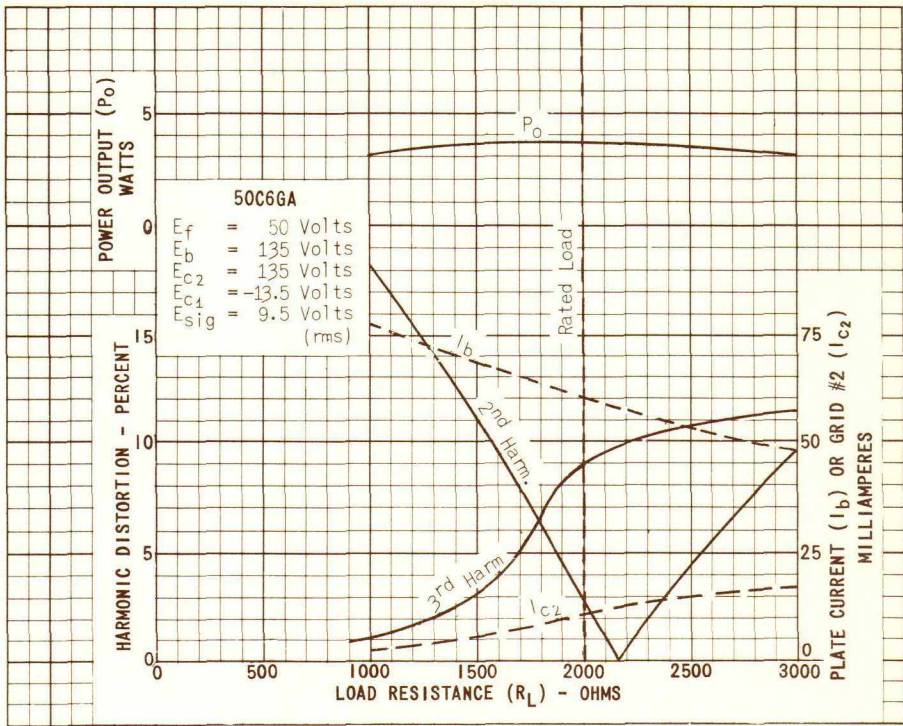
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

|                                     |       |        |         |
|-------------------------------------|-------|--------|---------|
| HEATER VOLTAGE                      | 50    |        | VOLTS   |
| HEATER CURRENT                      | 0.15  |        | AMP.    |
| PLATE VOLTAGE                       | 135   | 200    | VOLTS   |
| GRID #2 VOLTAGE                     | 135   | 135    | VOLTS   |
| GRID #1 VOLTAGE                     | -13.5 | -14    | VOLTS   |
| PEAK AF GRID #1 VOLTAGE             | 13.5  | 14     | VOLTS   |
| ZERO SIGNAL PLATE CURRENT           | 58    | 61     | MA.     |
| MAXIMUM SIGNAL PLATE CURRENT        | 60    | 66     | MA.     |
| ZERO SIGNAL GRID #2 CURRENT         | 3.5   | 2.2    | MA.     |
| MAXIMUM SIGNAL GRID #2 CURRENT      | 11.5  | 9      | MA.     |
| TRANSCONDUCTANCE                    | 7 000 | 7 100  | μMHOS   |
| PLATE RESISTANCE (APPROX.)          | 9 300 | 18 300 | OHMS    |
| LOAD RESISTANCE                     | 2 000 | 2 600  | OHMS    |
| MAXIMUM SIGNAL POWER OUTPUT         | 3.6   | 6      | WATTS   |
| TOTAL HARMONIC DISTORTION (APPROX.) | 10    | 10     | PERCENT |





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