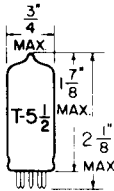


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

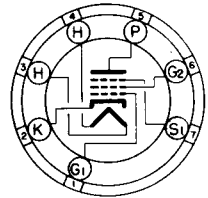
COATED UNIPOTENTIAL CATHODE

HEATER

3.15 VOLTS 0.6±10% AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
7 PIN BASE

7CM

THE 3DK6 IS A SHARP CUTOFF PENTODE IN THE 7-PIN MINIATURE CONSTRUCTION DESIGNED FOR SERVICE AS A WIDE-BAND HIGH-FREQUENCY AMPLIFIER. THE VERY HIGH TRANSCONDUCTANCE AT LOW PLATE AND SCREEN POTENTIALS COMBINED WITH THE LOW INTERELECTRODE CAPACITANCES MAKES IT PARTICULARLY SUITABLE FOR USE AS AN IF AMPLIFIER IN TELEVISION RECEIVERS. THERMAL CHARACTERISTICS OF THE HEATER ARE CONTROLLED SUCH THAT HEATER VOLTAGE SURGES DURING THE WARM-UP CYCLE ARE MINIMIZED PROVIDED IT IS USED WITH OTHER TYPES WHICH ARE SIMILARLY CONTROLLED. EXCEPT FOR HEATER RATINGS, THE 3DK6 IS IDENTICAL TO THE 4DK6.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

| | | |
|--------------------------|-------|----|
| GRID #1 TO PLATE (MAX.)* | 0.025 | μf |
| INPUT | 6.3 | μf |
| OUTPUT | 1.9 | μf |

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

| | | |
|---|--------------------------------|-------|
| HEATER VOLTAGE | 3.15 | VOLTS |
| MAXIMUM PLATE VOLTAGE | 330 | VOLTS |
| MAXIMUM GRID #2 SUPPLY VOLTAGE* | 330 | VOLTS |
| MAXIMUM GRID #2 VOLTAGE | SEE GRID #2 INPUT RATING CURVE | |
| MAXIMUM PLATE DISSIPATION | 2.3 | WATTS |
| MAXIMUM GRID #2 DISSIPATION | 0.55 | WATTS |
| MAXIMUM GRID #1 VOLTAGE:* | | |
| POSITIVE VALUE | 0 | VOLTS |
| MAXIMUM HEATER CATHODE VOLTAGE: | | |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | |
| TOTAL DC AND PEAK | 300 | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | |
| DC COMPONENT | 100 | VOLTS |
| TOTAL DC AND PEAK | 200 | VOLTS |
| HEATER WARM-UP TIME (APPRX.) ^A | | |

^A HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

CONTINUED ON FOLLOWING PAGE

* INDICATES AN ADDITION

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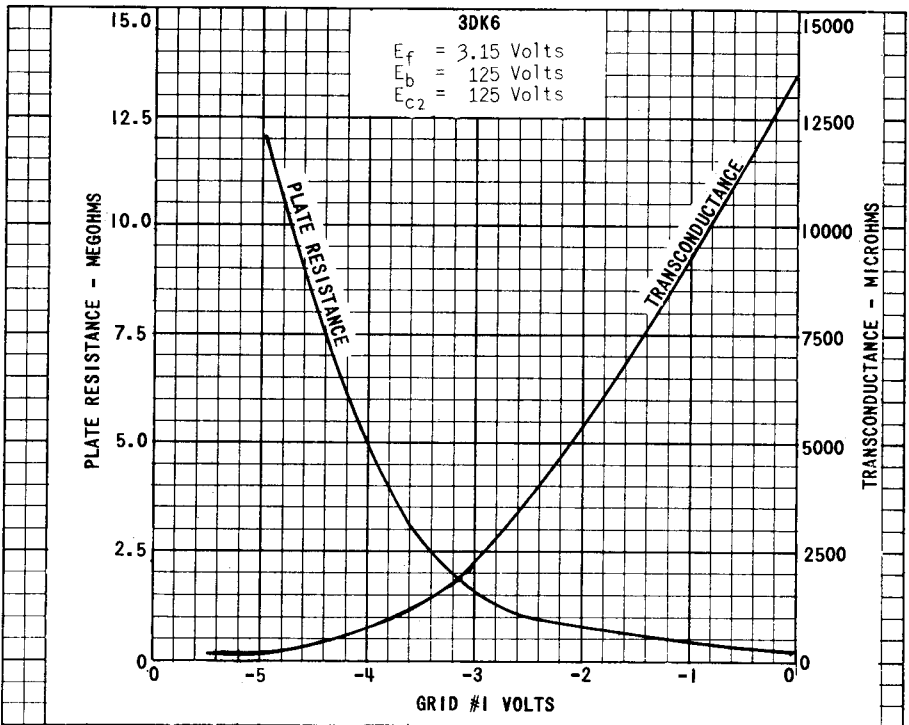
TUNG-SOL

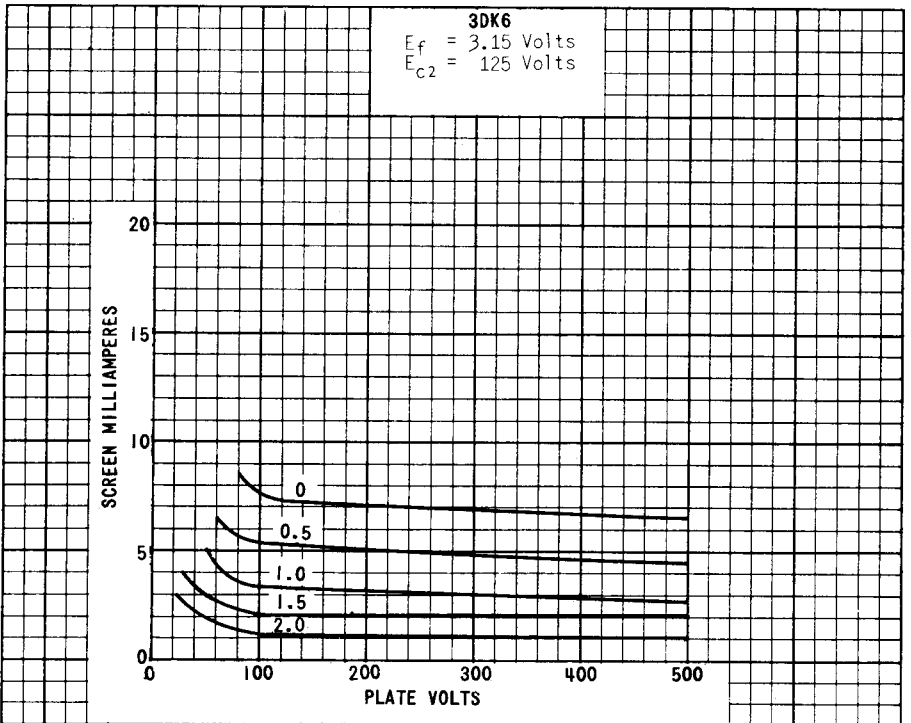
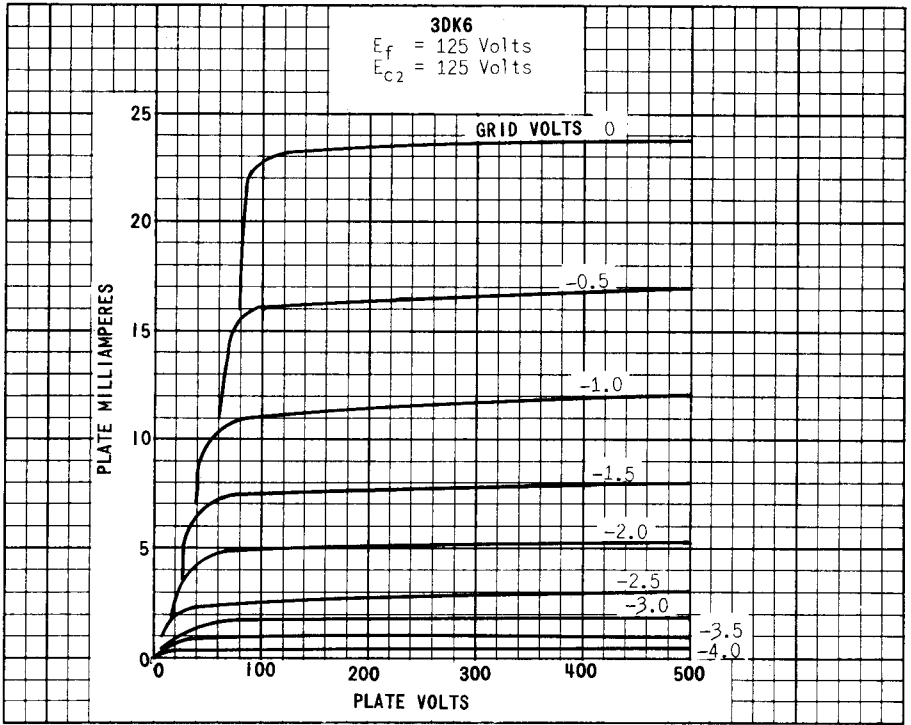
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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

| | | |
|----------------------------------|--------------------------------|---------|
| HEATER VOLTAGE | 3.15 | VOLTS |
| HEATER CURRENT | 0.6±10% | AMP. |
| PLATE VOLTAGE | 125 | VOLTS |
| GRID #3 (SUPPRESSOR) | CONNECTED TO CATHODE AT SOCKET | |
| GRID #2 VOLTAGE | 125 | VOLTS |
| CATHODE BIAS RESISTOR | 56 | OHMS |
| PLATE RESISTANCE (APPROX.)* | 0.35 | MEG OHM |
| TRANSCONDUCTANCE | 9800 | μMHOS |
| PLATE CURRENT | 12.0 | MA. |
| GRID #2 CURRENT | 3.8 | MA. |
| GRID #1 CUTOFF BIAS ^B | -6.5 | VOLTS |

^B FOR PLATE CURRENT OF 20 μA.





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