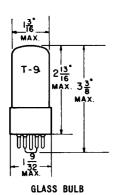
TUNG-SOL -

BEAM PENTODE



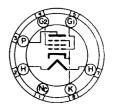
COATED UNIPOTENTIAL CATHODE

HEATER

9.4 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
INTERMEDIATE SHELL
8 PIN BASE
75

THE 9EF6 IS A BEAM POWER PENTODE DESIGNED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER IN WIDE ANGLE 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.

DIRECT INTERELECTRODE CAPACITANCES

| GRID #1 TO PLATE | 0.8 | µµ f |
|---|------|------|
| GRID #1 TO CATHODE GRID #3, GRID #2, HEATER | 11.5 | μμf |
| PLATE TO CATHODE GRID #3, GRID #2, HEATER | 9.0 | μμ f |

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM VERTICAL DEFLECTION AMPLIFIER - PENTODE CONNECTED

| HEATER VOLTAGE | 9.4 | VOLTS |
|---|-------|---------|
| MAXIMUM HEATER-CATHODE VOLTAGE: | | |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | |
| TOTAL DC AND PEAK | 200 | VOLTS |
| DC | 100 | VOLTS |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | |
| TOTAL DC AND PEAK | 200 | VOLTS |
| MAXIMUM PLATE VOLTAGE | 250 | VOLTS |
| MAXIMUM GRID #2 VOLTAGE | 250 | VOLTS |
| MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABS. MAX.) | 2 000 | VOLTS |
| MAXIMUM PLATE DISSIPATION | 10 | WATTS |
| MAXIMUM PEAK NEGATIVE PULSE GRID #1 VOLTAGE | 250 | VOLTS |
| MAXIMUM GRID #2 DISSIPATION | 2.0 | WATTS |
| MAXIMUM AVERAGE CATHODE CURRENT | 60 | MA - |
| MAXIMUM PEAK CATHODE CURRENT | 180 | MA. |
| MAXIMUM GRID #1 CIRCUIT RESISTANCE (RE-100 OHMS MIN.) | 2.2 | MEGOHMS |
| HEATER WARM-UP TIME (APPROX.)* | 11.0 | SECONDS |

CONTINUED ON FOLLOWING PAGE

TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

| HEATER VOLTAGE | 9.4 | VOLTS |
|---|-------|------------|
| HEATER CURRENT | 0.6 | AMP. |
| PLATE VOLTAGE | 250 | VOLTS |
| GRID #2 VOLTAGE | 250 | VOLTS |
| GRID #4 VOLTAGE | -18 | VOLTS |
| PLATE CURRENT | 50 | MA. |
| GRID #2 CURRENT | 2 | MA. |
| TRANSCONDUCTANCE | 5 000 | μ MHOS |
| GRID #1 VOLTAGE (APPROX.) FOR Ib=1 MA. | -40 | VOLTS |
| PLATE CURRENT FOR Eb= 75V, Ec2=250V, Ec1 =0 | 170 | MA. |
| SCREEN CURRENT Eb= 75V, Ec2=250V, Ec1 =0 C | 17 | MA |

SIMILAR TYPE REFERENCE:

Except for heater ratings, and heater warm-up time the 9EF6 is identical to the 6EF6.

Except for heater ratings, it is identical to the 12EF6.

ATHE DURATION OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCAMMING SYSTEM WHICH IS 2-5 MILLISECONDS IN A 525-LINE, 30-FRAME.

BIN THE CASE OF GRID RESISTOR BIAS SOME PROTECTION IS NECESSARY FOR THE TUBE IN THE NO DRIVE CONDITIONS.

 $^{^{\}mathrm{C}}$ instantaneous values.

^{*}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.