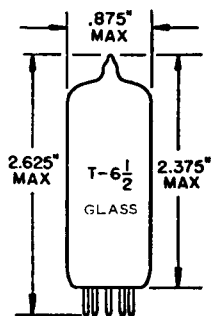
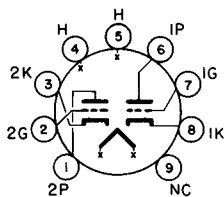


TUNG-SOL

TWIN TRIODE
MINIATURE TYPEOUTLINE DRAWING
JEDEC 6-3BASE 9 PIN BUTTON
JEDEC E9-1

FOR
USE IN MATRIXING CIRCUITS
OF COLOR T.V. RECEIVERS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

BASING DIAGRAM
JEDEC 9LP

BOTTOM VIEW

THE 6GU7 IS A MEDIUM-MU TWIN TRIODE IN THE 9 PIN T-6½ ENVELOPE. IT IS DESIGNED FOR USE IN THE MATRIXING CIRCUITS OF COLOR T.V. RECEIVERS. THE 6GU7 CAN ALSO BE USED IN PHASE-INVERTER AND MUTIVIBRATOR CIRCUITS OR AS A GENERAL-PURPOSE AMPLIFIER TUBE.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

| | UNIT #1 | UNIT #2 | |
|--------------------------------------|---------|---------|----|
| GRID TO PLATE | 3,0 | 3,0 | pf |
| GRID TO CATHODE AND HEATER | 3,4 | 3,6 | pf |
| PLATE TO CATHODE AND HEATER | 0,44 | 0,34 | pf |
| PLATE OF UNIT #1 TO PLATE OF UNIT #2 | 1,0 | 1,0 | pf |

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

| | | | |
|---|-----------|------------|---------|
| AVERAGE CHARACTERISTICS | 6.3 VOLTS | 600 | mA |
| HEATER WARM-UP TIME | | APPROX. 11 | SECONDS |
| LIMITS OF APPLIED VOLTAGE | | 6.3 ± 0.6 | VOLTS |
| LIMITS OF SUPPLIED CURRENT | | 600 ± 40 | mA |
| PEAK HEATER CATHODE VOLTAGE - EACH UNIT | | | |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | 200 | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | 200 | VOLTS |
| DC COMPONENT | | 100 | VOLTS |

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

CLASS A, AMPLIFIER - EACH UNIT

| | | |
|----------------------------|-----|--------|
| PLATE VOLTAGE | 330 | VOLTS |
| GRID VOLTAGE: | | |
| POSITIVE BIAS VALUE | 0 | VOLTS |
| PLATE DISSIPATION | 3 | WATTS |
| GRID - CIRCUIT RESISTANCE: | | |
| FOR FIXED BIAS OPERATION | 1 | MEGOHM |

CHARACTERISTICS

CLASS A, AMPLIFIER - EACH UNIT

| | | |
|---|---------------|------------------|
| PLATE VOLTAGE | 250 | VOLTS |
| GRID VOLTAGE | -10.5 | VOLTS |
| PLATE CURRENT | 11.5 | mA |
| TRANSCONDUCTANCE | 3,100 | μMHOS |
| AMPLIFICATION FACTOR | 17 | |
| PLATE RESISTANCE | APPROX. 5,500 | OHMS |
| PLATE CURRENT AT $E_c = -14$ VOLTS | 4 | mA |
| GRID VOLTAGE FOR $I_b = 50 \mu\text{A}$ | APPROX. -23 | VOLTS |

