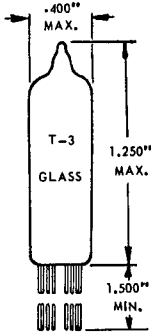
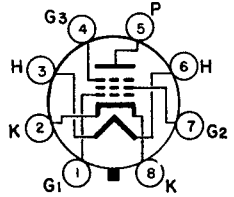


TUNG-SOL

PENTODE

SUBMINIATURE

OUTLINE DRAWING
JEDEC 3-11SUBMINIATURE BUTTON
8 FLEXIBLE LEADS
JEDEC E8-10FOR
GUIDED MISSILE
SERVICECOATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITIONBASING DIAGRAM
JEDEC 8DC

BOTTOM VIEW

THE 6944 IS A SEMI-REMOTE CUTOFF RF PENTODE IN THE 8 PIN SUBMINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR GUIDED MISSILE SERVICE. THIS TYPE IS CHARACTERIZED BY STABLE PERFORMANCE IN OPERATION AT HIGH ALTITUDES AND WHERE SEVERE CONDITIONS OF MECHANICAL SHOCK, VIBRATION AND HIGH TEMPERATURE ARE ENCOUNTERED.

DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD #318 CONNECTED TO CATHODE

| | | |
|-----------------|-------|----|
| GRID 1 TO PLATE | 0.015 | pf |
| INPUT | 2.9 | pf |
| OUTPUT | 3.1 | pf |

HEATER CHARACTERISTICS AND RATINGS

| | | | |
|---|-----------|------------|-------|
| AVERAGE CHARACTERISTICS | 6.3 VOLTS | 175 | mA |
| LIMITS OF APPLIED VOLTAGE | | 5.5 TO 6.9 | VOLTS |
| HEATER- CATHODE VOLTAGE | | | |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | 200 | VOLTS |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | 200 | VOLTS |

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

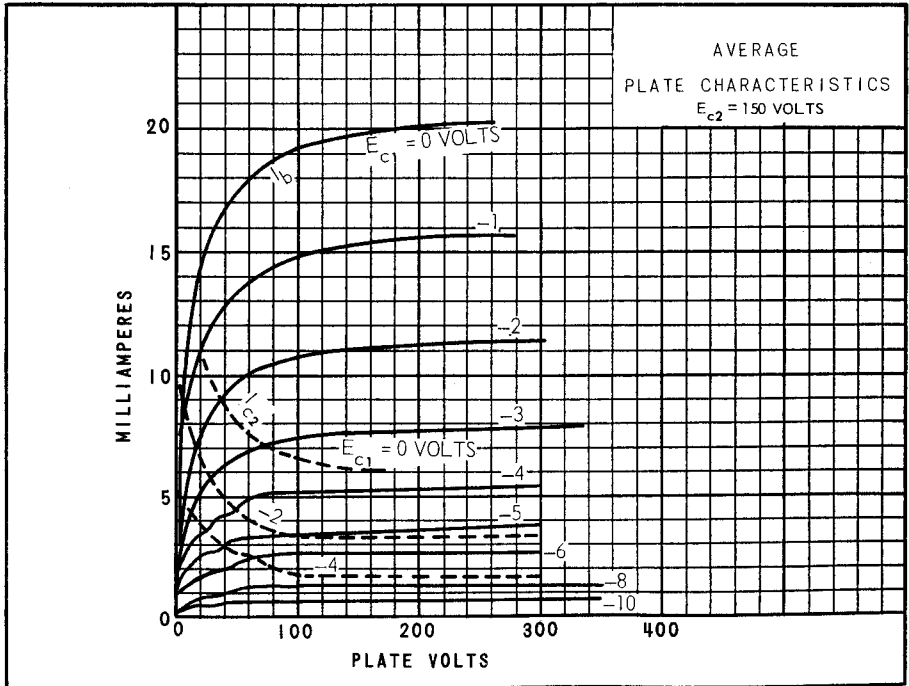
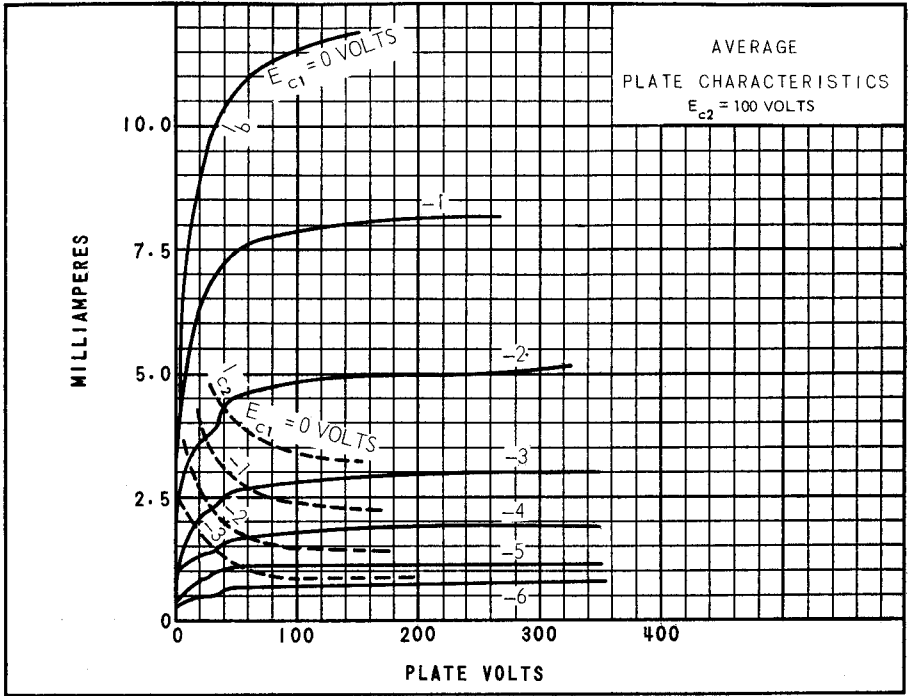
| | | |
|----------------------------|------|--------|
| DC PLATE VOLTAGE | 250 | VOLTS |
| PEAK-PLATE FORWARD VOLTAGE | 360 | VOLTS |
| DC GRID 3 VOLTAGE | | |
| POSITIVE VALUE | 0 | VOLTS |
| NEGATIVE VALUE | 20 | VOLTS |
| DC GRID 2 VOLTAGE | 150 | VOLTS |
| DC GRID 1 VOLTAGE | | |
| POSITIVE VALUE | 0 | VOLTS |
| NEGATIVE VALUE | 55 | VOLTS |
| PLATE DISSIPATION | 1.0 | WATTS |
| GRID 2 DISSIPATION | 0.36 | WATTS |
| GRID 1 CIRCUIT RESISTANCE | 1.0 | MEGOHM |
| BULB TEMPERATURE | 250 | °C |

CHARACTERISTICS

| | | |
|--|---------|------------|
| DC PLATE VOLTAGE | 100 | VOLTS |
| DC GRID 3 VOLTAGE | 0 | VOLTS |
| DC GRID 2 VOLTAGE | 100 | VOLTS |
| CATHODE RESISTOR | 150 | OHMS |
| DC PLATE CURRENT | 7.0 | mA |
| DC GRID 2 CURRENT | 2.0 | mA |
| TRANSCONDUCTANCE | 3,200 | μ MHOS |
| PLATE RESISTANCE | 280,000 | OHMS |
| DC GRID 1 VOLTAGE FOR $G_m = 25 \mu$ MHOS APPROX. (75 μ MHOS MAX.) | -12 | VOLTS |

SPECIAL TESTS AND RATINGS

| | | |
|----------------------------------|-----------|-----|
| IMPACT ACCELERATION | | |
| FATIGUE | | |
| FAILURE RATE | | |
| ALTITUDE - ABSOLUTE MAXIMUM | 80,000 | FT. |
| RADIATION - ABSOLUTE MAXIMUM | | |
| TOTAL DOSAGE - NEUTRONS/SQ. CM | 10^{16} | NVT |
| DOSE RATE - NEUTRONS/SQ. CM/SEC. | 10^{12} | NV |



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