The 7432 is a reliable subminiature r.f. pentode for use in guided weapons.

**PHYSICAL SPECIFICATIONS**

- **Base**: 8 lead subminiature with flying leads (B8D/F)
- **Bulb**: Glass T-3
- **Maximum bulb length**: 1.5" (38.1mm)
- **Maximum bulb diameter**: 0.4" (10.16mm)
- **Minimum lead length**: 1.5" (38.1mm)

**BASE DIAGRAM**

![Base Diagram]

**BASE CONNNECTIONS**

- Lead No. 1 Grid No. 1
- No. 2 Cathode, Grid No. 3, shield
- No. 3 Heater
- No. 4 Cathode, Grid No. 3, shield
- No. 5 Plate
- No. 6 Heater
- No. 7 Grid No. 2
- No. 8 Cathode, Grid No. 3, shield

**MECHANICAL RATINGS**

- Maximum shock (short duration) 500 g
- Maximum vibration (100hrs. max. duration) 5 g (10 minutes max. duration)
- Maximum operating altitude 60,000 ft.
- Maximum bulb temperature 165 °C
- Ambient storage temperature range -60 to +85 °C

*This rating assumes that the vibration frequency components are varying continuously over the band 10 to 1000 c/s in a random manner.

**GENERAL ELECTRICAL DATA**

- Heater voltage 6.3 V
- Heater current 175 mA

**ELECTRODE CAPACITANCES** (measured with external shield)

- Plate to grid <0.015 pF
- Input 4.0 pF
- Output 2.5 pF

**MAXIMUM RATINGS** (absolute values)

- Plate supply voltage 350 V
- Plate voltage 190 V
- Plate dissipation 1.0 W
- Grid No. 2 supply voltage 350 V
- Grid No. 2 voltage 190 V
- Grid No. 2 dissipation 400 mA
- Cathode current 12 mA
- Heater-cathode voltage 100 V
- Grid No. 1 circuit resistance (fixed bias) 100 kΩ (self bias) 500 kΩ
CHARACTERISTICS

Plate voltage 100 V  
Grid No. 2 voltage 100 V  
Plate current 7.0 mA  
Grid No. 2 current 2.2 mA  
Transconductance 5,000 micromhos  
Amplification factor (μg1-g2) 36  
Grid No. 1 voltage -1.4 V  
Grid No. 1 voltage (for plate current of <50μA) -8 V  
*Maximum noise output voltage 300 mV (r.m.s.)

*Measured across a plate resistor of 22kΩ with applied vibrational acceleration of 20g in the frequency range 60 to 1000 c/s.