

DATA FOR E.I.A. REGISTRATION

TUBE TYPE 7433

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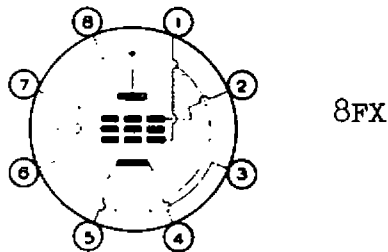
MULLARD LIMITED  
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The 7433 is a reliable subminiature pentode for use  
in guided weapons.

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)

BASING DIAGRAM



BASING CONNECTIONS

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

MECHANICAL RATINGS

Maximum shock (short duration)	500 g
*Maximum vibration (100hrs.max.duration)	5 g
(10 mins.max.duration)	20 g
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	200

ELECTRODE CAPACITANCES (measured with external shield)

Input	5.0 pF
Output	4.5 pF
Plate to grid No.1	<0.015 pF

MAXIMUM RATINGS (absolute values)

Plate supply voltage	350 V
Plate voltage	190 V
Plate dissipation	1.5 W
Grid No.2 supply voltage	350 V
Grid No.2 voltage	190 V
Grid No.2 dissipation	1.0 W
Cathode current	14 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.3 voltage	0	V
Grid No.2 voltage	100	V
Grid No.1 voltage	-2	V
Plate current	7.5	mA
Grid No.2 current	2.5	mA
Mutual conductance	5500	micromhos
Amplification factor ( $\mu_{g1-g2}$ )	28	
*Maximum noise output voltage	300	mV
		(r.m.s.)

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