

DATA FOR E.I.A. REGISTRATION

TUBE TYPE 7434

from JEDEC release
#2392, Feb. 23, 1959

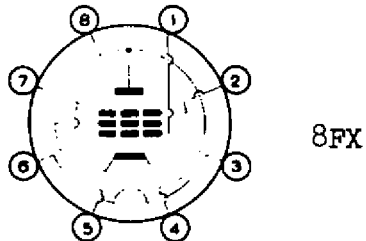
MULLARD LIMITED
Mullard House,
Torrington Place,
LONDON.W.C.1.

The 7434 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
(10mins.max.duration)	20 g
Maximum operating altitude	60,000 ft.
Maximum bulb temperature	165 °C
Ambient storage temperature range	-60to+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 mA

ELECTRODE CAPACITANCES (measured with external shield)

Input	3.8	pF
Output	4.4	pF
Plate to grid No.1	<0.3	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	mW
Cathode current	12	mA
Heater - cathode voltage	100	V
Grid No.1 circuit resistance		
(fixed bias)	250	kΩ
(self bias)	1.0	MΩ

CHARACTERISTICS

Plate voltage	100 V
Grid No.3 voltage	0 V
Grid No.2 voltage	100 V
Grid No1 voltage	-1.4 V
Plate current	7.0 mA
Grid No.2 current	2.4 mA
Mutual conductance	3100 micromhos
Amplification factor (μ_{g1-g2})	28
*Maximum noise output voltage	200 mV (r.m.s.)

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