

DATA FOR E.I.A. REGISTRATION

TUBE TYPE 7437

from JEDEC release
#2392, Feb. 23, 1959

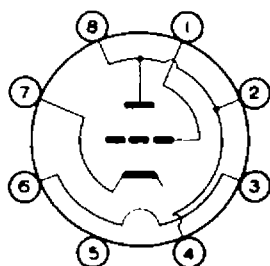
MULLARD LIMITED
Mullard House,
Torrington Place,
LONDON.W.C.1.

The 7437 is a reliable subminiature triode 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



8JY

BASING CONNECTIONS

Lead	No.1 Grid
	No.2 Plate
	No.3 Heater
	No.4 Plate
	No.5 No connection
	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 minutes max.duration)	20 g
Maximum operating altitude	60,000 ft.
Maximum bulb temperature	165 °C
Ambient storage temperature range	-60to+85 °C

*The 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	150 mA

ELECTRODE CAPACITANCES (measured with external shield)

Plate to grid	2.1 pF
Input	2.0 pF
Output	2.8 pF

MAXIMUM RATINGS (absolute values)

Plate supply voltage	350 V
Plate voltage	190 V
Plate dissipation	3 W
Cathode current	20 mA
Heater-cathode voltage	100 V
Grid circuit resistance (fixed bias)	100 kΩ
(self bias)	500 kΩ

CHARACTERISTICS

Plate voltage	100 V
Plate current	8.0 mA
Transconductance	4200 micromhos
Amplification factor	20
Grid voltage	-3.0 V
*Maximum noise output voltage	100 mV (r.m.s.)

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