DATA FOR E.I.A. REGISTRATION

TUBE TYPE 7437

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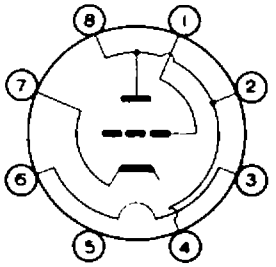
MULLARD LIMITED
Mullard House,
Torrington Place,
LONDON.W.C.1.

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



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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 22kΩ with applied vibrational acceleration of 20g in the frequency range 60 to 1000 c/s.