

DATA FOR E.I.A. REGISTRATION

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TUBE TYPE 7432

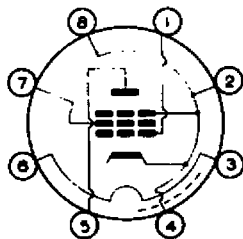
MULLARD LIMITED
Mullard House,
Torrington Place,
LONDON.W.C.1.

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)

BASING DIAGRAM



8DE

BASING CONNECTIONS

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) (10 minutes max. duration)	5	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	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	mW
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 (μ_{g1-g2})	36
Grid No.1 voltage	-1.4 V
Grid No.1 voltage (for plate current of $<50\mu\text{A}$)	-8 V
*Maximum noise output voltage	300 mV (r.m.s.)

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