TUBE TYPE 7437

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

The 7437 is a reliable subminiature triode for use in guided weapons.

PHYSICAL SPECIFICATIONS

Base
Bulb
Maximum bulb length 1.5" (38.1mm)
Maximum bulb diameter 0.4" (10.16mm)
Minimum lead length 1.5" (38.1mm)

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

BASING DIAGRAM

8JY

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 -60 to +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

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Plate voltage</td>
<td>100 V</td>
</tr>
<tr>
<td>Plate current</td>
<td>8.0 mA</td>
</tr>
<tr>
<td>Transconductance</td>
<td>4200 micromhos</td>
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<tr>
<td>Amplification factor</td>
<td>20</td>
</tr>
<tr>
<td>Grid voltage</td>
<td>-3.0 V</td>
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<tr>
<td>*Maximum noise output voltage</td>
<td>100 mV (r.m.s.)</td>
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*Measured across a plate resistor of 22kΩ with applied vibrational acceleration of 20g in the frequency range 60 to 1000 c/s.*