The Type 6056 is a subminiature remote-cut off rf pentode capable of operation in the uhf region. This type is characterized by long life and stable performance. It is designed for service where severe conditions of mechanical shock and vibration are encountered.

MECHANICAL DATA

GENERAL

<table>
<thead>
<tr>
<th>Style</th>
<th>subminiature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cathode</td>
<td>coated, unipotential</td>
</tr>
<tr>
<td>Bulb</td>
<td>T-3</td>
</tr>
<tr>
<td>Base</td>
<td>K8-1, (1) Subminiature Button--Flexible Leads</td>
</tr>
<tr>
<td>Outline</td>
<td>3-1</td>
</tr>
<tr>
<td>Maximum Bulb Diameter</td>
<td>0.400 inch</td>
</tr>
<tr>
<td>Maximum Overall Bulb Length</td>
<td>1.375 inches</td>
</tr>
<tr>
<td>Minimum Lead Length</td>
<td>1.500 inches</td>
</tr>
<tr>
<td>Mounting Position</td>
<td>any</td>
</tr>
<tr>
<td>Basing</td>
<td>8DL</td>
</tr>
</tbody>
</table>

Lead Connections:
- Lead 1 .. grid #1
- Lead 2 .. cathode and grid #3
- Lead 3 .. heater
- Lead 4 .. cathode and grid #3
- Lead 5 .. plate
- Lead 6 .. heater
- Lead 7 .. grid #2
- Lead 8 .. cathode and grid #3

RATINGS (2)

- Maximum Impact Acceleration (3) 450 g
- Maximum Uniform Acceleration (4) 1,000 g
- Maximum Vibrational Acceleration for Extended Periods (5) 2.5 g

ELECTRICAL DATA

GENERAL

Direct Interelectrode Capacitances: (6)
- Grid #1 to plate, maximum 0.015 µf
- Input 4.40 µf
- Output 3.4 µf

Heater Voltage (ac or dc) 26.5 volts
Heater Current 45 milliamperes

RATINGS (2) -- Absolute System

- Heater Voltage (ac or dc) (7) 26.5 (±5%) volts
- Maximum Plate Voltage (dc) 55 volts
- Maximum Grid #2 Voltage (dc) 55 volts
- Maximum Cathode Current (dc) 10 milliamperes
- Maximum Heater-Cathode Voltage ±200 volts

(See Page 2 for notes.)
TYPE 6056

CHARACTERISTICS

Conditions:
- Heater Voltage (ac or dc) ....................... 26.5 volts
- Plate Voltage (dc) .................................. 26.5 volts
- Grid #2 Voltage (dc) .............................. 26.5 volts
- Grid #1 Resistor .................................. 2.2 megohms
- Plate Current ...................................... 2.7 milliamps
- Grid #2 Current .................................... 1.1 milliamps
- Transconductance ................................. 3,000 micromhos
- Plate Resistance ................................. 125,000 ohms

Grid #1 Voltage for 10 μmhos
- Transconductance .................................. -4.5 volts

Noise Output Voltage, maximum(8) ............... 100 millivolts

Life Expectancy, at 160 °C Maximum Bulb
- Temperature ...................................... 5,000 hours

(1) With 1.500 inches Minimum Lead Length as specified above.

(2) Limitations beyond which normal tube performance and tube life may be impaired.

(3) Forces in any direction as applied by the Navy Type High Impact (Flyweight) Shock Machine for Electronic Devices, or equivalent.

(4) Forces in any direction applied gradually, as in centrifuge.

(5) Vibrational forces in any direction at 60 cycles per second for a period exceeding 100 hours.

(6) With external shield of 0.405 inch diameter connected to cathode.

(7) Tube life and reliability of performance are directly related to the degree of regulation of the heater voltage to its center-rated value of 26.5 volts.

(8) Across plate resistor of 10,000 ohms, with applied vibrational acceleration of 15 g at 40 cycles per second.