DOUBLE TRIODE
MINIATURE TYPE

FOR MILITARY AND
INDUSTRIAL APPLICATIONS

COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

THE 6J6WA IS A MEDIUM-MU TWIN TRIODE WITH A COMMON CATHODE IN THE 7 PIN MINIATURE CONSTRUCTION. THE TUBE IS PARTICULARLY ADAPTABLE FOR SERVICE AS A MIXER-OSCILLATOR AT FREQUENCIES UP TO 600 MEGACYCLES PER SECOND. IT INCORPORATES DISTINCTIVE MECHANICAL DESIGN FEATURES FOR HIGHLY RELIABLE OPERATION.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO CATHODE
INPUT
OUTPUT: (SECTION 1)
OUTPUT: (SECTION 2)
HEATER TO CATHODE

1.3 pf
2.1 pf
0.4 pf
0.45 pf
6.0 pf

HEATER CHARACTERISTICS AND RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS
6.3 VOLTS
450 MA.

HEATER SUPPLY LIMITS:
VOLTAGE OPERATION
6.3 ± 0.6 VOLTS

MAXIMUM HEATER-CATHODE VOLTAGE:
+180 VOLTS

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MAXIMUM RATINGS
DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239
EACH SECTION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>PLATE VOLTAGE</td>
<td>300</td>
<td>VOLTS</td>
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<tr>
<td>PLATE DISSIPATION</td>
<td>1.1</td>
<td>WATTS</td>
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<tr>
<td>PLATE CURRENT</td>
<td>12.5</td>
<td>MA.</td>
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<tr>
<td>ENVELOPE TEMPERATURE</td>
<td>165</td>
<td>°C</td>
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<tr>
<td>ALTITUDE</td>
<td>60,000</td>
<td>FT.</td>
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<tr>
<td>GRID CURRENT RESISTANCE (CATHODE BIAS)</td>
<td>0.25</td>
<td>MEGOHMS</td>
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TYPICAL OPERATING CHARACTERISTICS
CLASS A1 AMPLIFIER - EACH SECTION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>PLATE VOLTAGE</td>
<td>100</td>
<td>VOLTS</td>
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<tr>
<td>CATHODE BIAS RESISTOR (BOTH SECTIONS)</td>
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<tr>
<td>PLATE CURRENT</td>
<td>50</td>
<td>OHMS</td>
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<td>TRANS Conductance</td>
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<td>MA.</td>
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<td>AMPLIFICATION FACTOR</td>
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<td>µMHOs</td>
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<td>PLATE RESISTANCE</td>
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<td>6,300</td>
<td>OHMS</td>
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SPECIAL TESTS AND CONTROLS

HEATER-CYCLING LIFE TEST
LOW PRESSURE VOLTAGE BREAKDOWN
SHOCK
FATIGUE

A OPERATION WITH FIXED BIAS IS NOT RECOMMENDED.