The Svetlana™ SV6550C is a beam power tetrode having a large standard octal base and glass envelope. With a gold-plated molybdenum alloy grid and carbon-coated screen grid, the Svetlana SV6550C is the finest power tube of its type being manufactured today. All ratings of the Svetlana SV6550C meet or exceed those of the original version; top-quality cathode materials and extensive aging yield outstanding performance in high-fidelity amplifiers. The Svetlana SV6550C is made exclusively at the Svetlana Electron Devices factory in St. Petersburg, Russia, and is marketed worldwide by PM Components Ltd. and in the USA by PM of America Inc.

TYPICAL MECHANICAL AND ELECTRICAL PARAMETERS

Exact replacement for: 6550, 6550A, 6550B, 6550B-3
Heater: 6.3v AC or DC, 1.65 amps
Cathode: oxide-coated high-purity nickel sleeve
Capacitances:
- control grid to anode 1.0 pF
- control grid to cathode 16 pF
Mounting and basing
- large octal, metal ring conn. to pin 1, device operable in any position (keep adjacent tubes separated by 3.5 in. minimum)
Height 118 mm (4.7 in)
Diameter 47 mm (2.0 in)
Mass 99 g (3.4 oz)
ABSOLUTE MAXIMUM RATINGS

Cathode-heater maximum DC voltage          +250v
Allowable spot temperature on envelop.     250 degrees C
Plate voltage, DC (at idle)             685 v
Plate voltage, DC, in triode connection   425 v
Screen voltage, DC, at idle             425 v
Control grid voltage, DC, at idle       -350 v
Cathode current, DC, at idle            180 mA
Plate dissipation, peak or idle         36 watts
Screen grid dissipation, peak or idle   7 watts
Control grid resistance, fixed bias     200k ohms

TYPICAL OPERATION

Push-pull class AB1 tetrode connection, cathode bias
Plate voltage                   400v DC
Screen voltage                  310v DC
Plate current, idle             170 mA
Plate current, full power       185 mA
Cathode bias resistor, common   140 ohms 25w
Load resistance, plate-to-plate 5000 ohms
Output power                    40 watts
Total harmonic distortion at 40w output 0.7%

Push-pull class AB1 tetrode connection, fixed bias
Plate voltage                   600v DC
Screen voltage                  300v DC
Plate current, idle             100 mA
Plate current, full power       270 mA
Grid bias                       -55 v DC
Load resistance, plate-to-plate 5000 ohms
Output power                    100 watts
Total harmonic distortion at 100w out 3.0%
Push-pull class AB1 ultralinear connection, cathode bias

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate voltage</td>
<td>450v DC</td>
</tr>
<tr>
<td>Screen taps</td>
<td>40%</td>
</tr>
<tr>
<td>Plate plus screen current, idle</td>
<td>150 mA</td>
</tr>
<tr>
<td>Plate plus screen current, full power</td>
<td>265 mA</td>
</tr>
<tr>
<td>Cathode bias resistor, common</td>
<td>400 ohms 25w</td>
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<tr>
<td>Load resistance, plate-to-plate</td>
<td>4000 ohms</td>
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<tr>
<td>Output power</td>
<td>70 watts</td>
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<tr>
<td>Total harmonic distortion at 70w out</td>
<td>2.4%</td>
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</tbody>
</table>

Push-pull class AB1 triode connection, fixed bias

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Plate and screen voltage</td>
<td>450v DC</td>
</tr>
<tr>
<td>Plate plus screen current, idle</td>
<td>120 mA</td>
</tr>
<tr>
<td>Plate plus screen current, full power</td>
<td>150 mA</td>
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<tr>
<td>Grid bias</td>
<td>-65 v DC</td>
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<tr>
<td>Load resistance, plate-to-plate</td>
<td>4000 ohms</td>
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<tr>
<td>Output power</td>
<td>30 watts</td>
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<tr>
<td>Total harmonic distortion at 30w out</td>
<td>1.5%</td>
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