



## **6550C BEAM POWER TETRODE**

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)

HEADQUARTERS:  
1687 Shelby Oaks Drive  
Suite 8  
Memphis, TN 38134  
Phone: 901-388-2424  
Fax: 901-388-2405

CERAMIC TUBE DIVISION:  
895 B. Street PMB #481  
Hayward, CA 94541  
Phone / Fax: 510-885-1247



## ABSOLUTE MAXIMUM RATINGS

Cathode-heater maximum DC voltage	+ -250v
Allowable spot temperature on envel.	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%

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Push-pull class AB1 ultralinear connection, cathode bias

Plate voltage	450v DC
Screen taps	40%
Plate plus screen current, idle	150 mA
Plate plus screen current, full power	265 mA
Cathode bias resistor, common	400 ohms 25w
Load resistance, plate-to-plate	4000 ohms
Output power	70 watts
Total harmonic distortion at 70w out	2.4%

Push-pull class AB1 triode connection, fixed bias

Plate and screen voltage	450v DC
Plate plus screen current, idle	120 mA
Plate plus screen current, full power	150 mA
Grid bias	-65 v DC
Load resistance, plate-to-plate	4000 ohms
Output power	30 watts
Total harmonic distortion at 30w out	1.5%

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