

SVETLANA TECHNICAL DATA SV6550C High Performance Audio Beam Power Pentode

he Svetlana™ SV6550C is a glass envelope beam power pentode. It is intended for ultra linear audio frequency power amplification service. Close manufacturing specification tolerances and improved processing provide improved reliability and superior sonic performance. The new SV6550C features: increased peak cathode emission from new cathode materials; stable operation from extended processing and aging; gold-plated grid; new tri-plate anode; single-piece beam forming electrode; precise grid/screen alignment; improved vacuum processing; and comprehensive static and audio amplifier testing before and after aging.

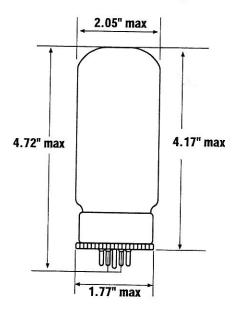
The Svetlana SV6550C is manufactured in the Svetlana factory in St. Petersburg, Russia, and is designed to be a direct replacement for any 6550.

Characteristics

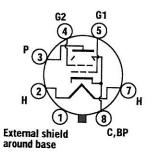
Electrical

Heater:	Min.	Nom.	Мах.	
Voltage (AC or DC)	5.7	6.3	6.9	·
Current		1.6		
Cathode:		Oxide-d	oated, unipor	entia
Cathode-to-heater potential, m	ax.		-300*/200**	V
Direct interelectrode capacitan	ces, max.***			
Grid no.1 to cathode and grid	d no.3, grid no	.2,		
base sleeve and heater			18.5	рF
Plate to cathode and grid no.	.3, grid no.2,			
base sleeve and heater			12.5	pF
Grid no.1 to plate (max)			1.1	pF
Mechanical				-
Operating Position				Any
Base	Large wafer	octal 8-pir	with metal s	
Maximum dimensions:				
Height			116 mm (4.5	7 in.)
Seated height		1	06 mm (4.17	,
Diameter				
Cooling			46 mm (1.8	1 in.)
			46 mm (1.8 Convection co	0000
Envelope Temperature (max)		(Convection co	0000
Approximate net weight		(Convection co	ooled 50°C
	ım ratings		Convection co	ooled 50°C
Approximate net weight	ım ratings	(Convection co	ooled 50°C
Approximate net weight AF Power Amplifier, Maximu	um ratings		Convection co 2 100 g (3.5 680	ooled 50°C oz.)
Approximate net weight AF Power Amplifier, Maximu DC plate voltage	um ratings		Convection co 2 100 g (3.5 680 400	ooled 50°C 5 oz.) V
Approximate net weight AF Power Amplifier, Maximu DC plate voltage Grid no.2 DC (screen) voltage	um ratings		Convection co 2 100 g (3.5 680	ooled 50°C 5 oz.) V
Approximate net weight AF Power Amplifier, Maximu DC plate voltage Grid no.2 DC (screen) voltage Grid no.1 (control) voltage	um ratings		2 100 g (3.5 680 400 -300	ooled 50°C 5 oz.) V V V
Approximate net weight AF Power Amplifier, Maximu DC plate voltage Grid no.2 DC (screen) voltage Grid no.1 (control) voltage DC cathode current	um ratings		2 100 g (3.5 680 400 -300	ooled 50°C 5 oz.) V V V mA

Svetlana Outline drawing



Bottom View



^{**}Max with heater positive to cathode

^{***}Without external shielding

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Svetlana ELECTRON DEVICES

Typical Operation Class A, (single tube)

DC plate voltage	400	V
Grid no.2 DC (screen) voltage	225	V
Grid no.1 DC (control) voltage	-22	V
Peak AF grid no.1 (control) voltage	22	V
Zero-signal plate current	87	mA
Max signal plate current	105	mA
Zero signal grid no.2 (screen) current	4	mAdc
Max signal grid no.2 (screen) current	18	mA
Transconductance (nominal)	9500	μS
Load resistance	3000	ohms
Signal output at 5% distortion	12	W

