

Svetlana EF86 High-Performance Audio Small-Signal Pentode

he Svetlana EF86 is a glass envelope miniature pentode intended for high-quality audio preamplifier service. Close manufacturing specification tolerances and improved processing provide improved reliability and superior sonic performance. The Svetlana EF86 is manufactured in the Svetlana factory in Russia, and is designed to be a direct replacement for any EF86 or 6267 type.

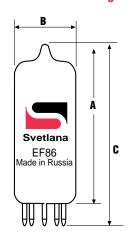
The Svetlana EF86 features:

- Low microphonics and low heater hum induction suitable for input stages in high-gain microphone preamps, phono preamps or as a gain stage in condenser microphones
- Electrostatic shield is built-in, covers entire inner structure—no external shield required
- Low distortion in pentode or triode connection
- Extended processing and aging for stability and reliability
- Comprehensive static and audio amplifier testing before and after aging

General Characteristics

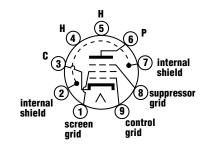
min.	typ.	max.	
5.7	6.3	6.9	V
	0.2		Α
oxide-coated, unipotential			
		±100	V
			Any
	9-pin miniature noval		
JEDEC 9CQ			
Svetlana SK9A or equivalent			
Radiation and convection			
		200	С
	22 mm (0.867 in)		
		46.5 mm (1.836 in)	
		55.5 mm (2.180 in)	
			13 gm
		300	V
		200	V
		1	W
		0.2	W
		6.0	mA
		5.7 6.3 0.2	5.7 6.3 6.9 0.2 oxide-coated, un ±100 9-pin miniate JEE Svetlana SK9A or e Radiation and co 200 22 mm (46.5 mm (55.5 mm (200 1 0.2

Svetlana EF86 Outline drawing



I	Dimen	Dimensional Data				
	Dim. A	Millimeters 46.5	Inches 1.835			
	С	55.5	2.180			
	В	22	0.867			

Base pin connections bottom view







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Typical operation, Class A Connection, Small-signal amplifier

	pentode	triode	
DC plate Voltage	250	250	V
Screen grid voltage	140		V
Cathode bias resistor	1k	3.9k	ohms
Zero-signal plate current	3	0.65	mA
Zero-signal screen grid current	0.6		mA
Plate resistance (approx)	2.5 megohms	65k	ohms
Load resistance	220k	220k	ohms
Total harmonic distortion	5	3.5	%
Maximum voltage output	50	39	vrms

