

he Svetlana™ 12AX7 is a miniature glass-envelope smallsignal dual triode intended for use as a low-noise preamplifier for audio applications. It is a direct plug-in replacement for any 12AX7, 7025 or ECC83 in music or audio amplifiers. All ratings of the Svetlana 12AX7 meet or exceed those of the original version; top-quality cathode materials and extensive aging yield outstanding performance in high-fidelity amplifiers. The Svetlana 12AX7 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

Electrical Cathode

Heater voltage (AC or DC)

Heater current

Heater-cathode voltage Amplification factor (nominal) Transconductance (nominal)

Plate resistance (nominal)

Typical equivalent hum and noise voltage.

per section, rms averaged, Rg=0 Interelectrode capacitances (typical),

per section, with cathode grounded:

Input Output

Grid to anode

Base

Basing diagram Socket miniature Operating position Oxide-coated, unipotential 12.6 volts AC or DC (+-0.6 volts), center-tapped 150 mA (12.6v) or 300 mA (6.3v)+-200 volts peak 100 1600 uS

1.8 uV

62,500 ohms

1.6 pF 0.46 pF max 1.7 pF standard 9-pin miniature, glass button JEDEC 9A 9-pin

Any



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## Nominal dimensions:

Height of glass envelope

Diameter of glass envelope

Overall height

Net weight

46.5 mm (1.835 inches)

22 mm (0.867 inches)

55.5 mm (2.180 inches)

15 grams

## Maximum ratings:

Anode voltage, DC

Anode dissipation, per triode

Cathode current, continuous, per triode

Positive DC grid voltage

Negative DC grid voltage

Maximum grid-circuit resistance

330 volts

1.2 watts

10 mA

0 volts

-50 volts

10.0 megohms

Typical Application: Class A1 Small-Signal Amplifier, either section

Anode supply voltage 300 volts
Anode load resistor 100,000 ohms
Cathode bias resistor 1000 ohms
Max. output voltage swing

at 5% THD, nominal 40 v rms



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