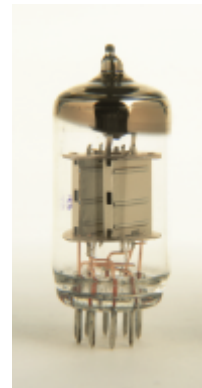




## 12AX7 HIGH-MU TWIN AUDIO TRIODE

The Svetlana™ 12AX7 is a miniature glass-envelope small-signal 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

Oxide-coated, unipotential

Heater voltage (AC or DC)

12.6 volts AC or DC (+-  
0.6 volts), center-tapped

Heater current

150 mA (12.6v) or 300 mA  
(6.3v)

Heater-cathode voltage

+200 volts peak

Amplification factor (nominal)

100

Transconductance (nominal)

1600  $\mu$ S

Plate resistance (nominal)

62,500 ohms

Typical equivalent hum and noise voltage,  
per section, rms averaged,  $R_g=0$

1.8  $\mu$ V

Interelectrode capacitances (typical),  
per section, with cathode grounded:

Input

1.6 pF

Output

0.46 pF max

Grid to anode

1.7 pF

Base

standard 9-pin miniature,  
glass button

Basing diagram

JEDEC 9A

Socket

9-pin

miniature

Operating position

Any

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



Nominal dimensions:

Height of glass envelope	46.5 mm (1.835 inches)
Diameter of glass envelope	22 mm (0.867 inches)
Overall height	55.5 mm (2.180 inches)
Net weight	15 grams

Maximum ratings:

Anode voltage, DC	330 volts
Anode dissipation, per triode	1.2 watts
Cathode current, continuous, per triode	10 mA
Positive DC grid voltage	0 volts
Negative DC grid voltage	-50 volts
Maximum grid-circuit resistance	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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