

# JJ 322

Stereo single ended  
tube amplifier



## JJ 322 Stereo single - ended tube amplifier (dual monoblock pure class A.300B parallel)

- **Output power:** 20 W + 20 W
- **Load impedance:** 4; 8 Ohm
- **Input impedance:** 50 kOhm
- **Input sensitivity:** 350 mV at 20 W
- **Power bandwidth:** 18 Hz - 25 000 Hz (-1 dB)
- **Channel separation:** 72 dB/1 kHz
- **Global negative feedback:** 0 dB
- **Noise level:** less than 1 mV
- **Output transformers:** Double „C.cores“
- **AC power:** 230 V (120 V, 100 V) 50/60 Hz
- **Nom. consumption:** 240 W
- **Tubes:** 4 x JJ 300B, 2 x JJ E88CC, 2 x JJ ECC83, 2 x JJ EM84
- **Dimensions:** 570 x 380 x 255 mm
- **Weight:** 42 kg
- **Finish:** transf. covers: brown, black (pulver lack)  
top plate: silver or 24 carat gold plated  
wood: brown, natural (glossy) or black (dull)

Amplifier JJ 322 is designed as a pair of monoblocks having only one power outlet ground connection and an ALPS potentiometer in common.

Power sources are independent and filtration capacitance of RC filters is 1500 mF per one channel. The electrolytic capacitors of JJ Electronic production are bypassed with high quality polypropylene capacitors. Filament voltages for all tubes are of DC type.

Design of JJ 322 electrical circuitry was guided by these criteria for outstanding sound:

- Great linearity (as small as possible distortion), 0,3 % / 10W

Zero global feedback, 0 dB GFB

Sufficient damping factor, DF = 4

Highest quality components



The tubes in the signal path, JJ ECC83, JJ E88CC and JJ 300B have excellent linearity and sound. In the last 2 years, JJ 300B won many awards around the world as the best 300B tube. Output transformers contribute to the outstanding sound quality too.

The transformers' C-cores are made from custom manufactured unique fine grain-oriented sheets rolled to the thickness of 0,13 - 0,15 mm. After a proprietary vacuum annealing process,

transformer laminations are cut, polished and etched. All steps of C-Core manufacturing are under JJ Electronic direct control.

The coils of output transformers have 12 windings. This, together with optimized air distance 2 x 2 x 0,16 mm between C - cores, yields only 3mH at Lp = 20 H Lsp. As a result of this, JJ 322 can achieve a power bandwidth of 15 Hz - 35 kHz / -1dB at 10 W.

The above technical parameters are the basis of JJ 322's outstanding sound quality.

The sound and also overall amplifier design, which received the Las Vegas CES 2000 Design and Engineering Showcase Award, make JJ 322 a jewel among audiophile devices.

JJ 322 is also available with three inputs. Version without input potentiometer also at production.

**JJ ELECTRONIC**  
manufacturer of electron tubes

**A. Hlinku 4**  
**022 01 Čadca**  
**SLOVAKIA**

[www.jj-electronic.com](http://www.jj-electronic.com)

E-mail: [jj.electronic@bb.telecom.sk](mailto:jj.electronic@bb.telecom.sk)

