

JJ ELECTRONIC
Excellence with Every Decibel

JJ828

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JJ 828 Integrated power tube stereo amplifier

Circuit type:	Push-Pull Ultra Linear AB with CFB
Power output:	70 W RMS each channel
Load impedance:	4; 8 Ohm
Input sensitivity:	0,775 V for full output
Input impedance:	25 000 Ohms
Power bandwidth:	20 Hz - 25 000 Hz (-1 dB)
Noise & hum:	- 88 dB bellow full output
Inputs:	5 x Line (unbalanced)
Tape out:	For tape recording
AC power:	230 V (120 V, 100 V) AC 50/60 Hz
Consumption:	400 W max.
Tubes:	8 x JJ KT88, 2 x JJ ECC99, 4 x JJ ECC82
Dimensions:	480 x 350 x 180 mm
Weight:	35 Kg
Finish:	chasis: black, gold antique or silver antique (pulver lack) top plate: gold or silver (pulver lack) cover: gold or silver (pulver lack) wood: brown, natural (glossy) or black (dull)

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The basic design criteria for amplifier JJ 828 were as follows:

- integrated amplifier with remote control
- minimum 50W output power per channel
- sufficient damping factor at minimal global feedback
- great sound

Our designers have chosen this solution:

- high quality components
- inputs switched by signal relays
- independent power source for each channel
- ultra linear circuitry with KT 88 tube
- high operational current of KT 88 (75mA)
- KT88 cathodes feedback (CFB) via output transformers
- output transformer unique design



For the first time, tube ECC 99 is used as a driver for KT 88. This is a tube specifically developed by JJ Electronics for application as a unique linear driver for high power tubes KT88 and 300 B. Concertina with ECC 82 parallel was chosen as a phase inverter in front of the ECC 99.

There are two feedbacks in this design: one is a global feedback from OT (-6dB) and the second is from the KT88 cathodes through OT (5dB). Output transformer is based on C-core made from 0.13-0.15 mm sheets, with air distance 2 x

0.05 mm. The air distance provides linearization of electrical parameters within the entire power range. The manufacturing of C-core, similarly as in the case of the JJ 322 amplifier, is under complete control of JJ Electronic. There are two OT coils: each has four primary, four bifilar secondary and two feedback windings. This OT



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A.Hlinka 3 022 01 ČADCA Phone: +421-41-4304 120
Fax: +421-41-4304 130
Slovak Republic E-mail: info@jj-electronic.com