

Audio Power Amplifier Series

3W, Mono, Ultra-Low EMI, Filterless, Class-D Audio Power Amplifier with Spread Spectrum

## www.datasheet44.com

The CP2215 is a high efficiency, mono, filterless, Class D audio power amplifier with spread spectrum designed for demanding audio applications. An advanced spread spectrum modulation reduces EMI and eliminates output filter. It is capable of delivering 3W of continuous average power to a 4 $\Omega$  BTL load with less than 10% distortion (THD+N) from a 5V battery voltage. It operates from 2.5V to 5.5V.

Features like 90% efficiency, -80dB PSRR at 217Hz, improved RF-rectification immunity, the space-saving CSP9 and DFN8 packages, the advanced pop & click circuitry, a minimal count of external components and low-power shutdown mode make the CP2215 ideal for wireless handsets.

The gain of the CP2215 can be configured by external input resistors, which allows independent gain control from multiple sources by summing the signals. Short circuit and thermal protection prevent the device from damage during fault conditions.





DFN8 Package 3mm x 3mm -40℃~85℃

### Features

- Spread spectrum modulation reduces EMI and eliminates output filter
- Efficiency with an 8Ω speaker at 400mW
- Power output at 5.0V, 1%THD, 8Ω
- Power output at 5.0V, 10%THD, 4Ω
- Quiescent current
- Shutdown current
- Improved PSRR
- Wide single supply voltage: 2.5V to 5.5V
- Fully differential design reduces RF rectification
- Integrated click-and-pop suppression circuitry
- Short circuit and thermal protection
- Available in space-saving packages: CSP9 & DFN8
- RoHS compliant and 100% lead(Pb)-free

### Applications

- Wireless handsets
- Portable audio devices
- PDAs
- Notebook computers

90%(typ) 1.36 W(typ) 3 W(typ) 2.3mA (typ) 0.1µA (typ) -80dB (typ)



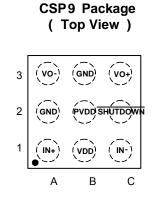
# **Product Brief**

## CP2215 V1.0

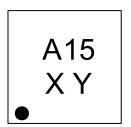
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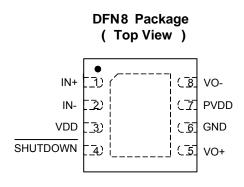
#### www.datasheet40.com Pin Configurations



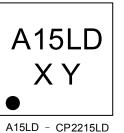
**CSP9 Marking** 



A15 - CP2215ITLX XY - Manufacture Date Code



DFN8 Marking



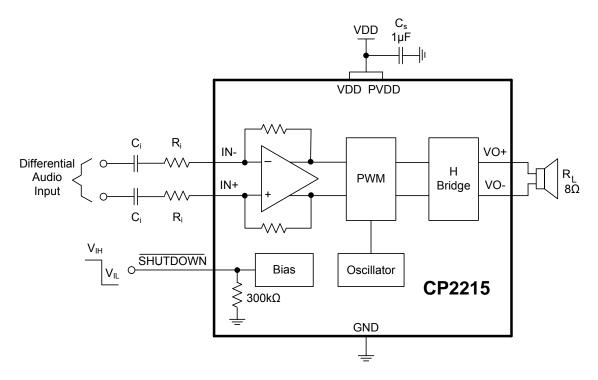
A15LD - CP2215LD XY - Manufacture Date Code



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### www.datasheeta Application



### **Contact with Chiphomer**

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