

NC122MP

Class D amplifier with SMPS



APPLICATIONS

- Monitor loudspeakers for recording and mastering studios
- Audiophile power amplifiers for professional and consumer use.
- Public address systems
- Active loudspeakers

TECHNICAL SPECIFICATION

- | | |
|-------------------------------------|-------------|
| - Max Output power | 2x 125W |
| - Channels | 2 |
| - Technique | NCore |
| - Dimensions mm | 170* 85*40 |
| - Weight | 415g |
| - Mains voltage input | 230V / 115V |
| - Automatic input voltage selection | Yes |

DESCRIPTION

The NC122MP amplifier module incorporates a low power standby power supply (meets 2013 ERP Lot 6 0.5W requirements), a highly efficient switch mode power supply and a high-performance Class D amplifier in one compact and easily applicable power brick.

The amplifier used in the NC122MP is a self-contained high-performance class D amplifier intended for a wide range of audio applications, ranging from public address systems to ultrahigh-fidelity replay systems for studio and home use. Chief distinguishing features are flat frequency response irrespective of load impedance, nearly frequency independent distortion

behaviour and very low radiated and conducted EMI. Control is based on a phase shift controlled self-oscillating loop taking feedback only at the speaker output. The main SMPS providing the power for the amplifier is a compact, high power, highly efficient, regulated half bridge converter with synchronous rectification on the main output rails. These properties make this technology ideal for powering Class D audio amplifiers.

For applications requiring a standby mode, a low power standby SMPS also has been integrated into this product. To achieve universal mains input compatibility this SMPS features an automatic input voltage doubler.