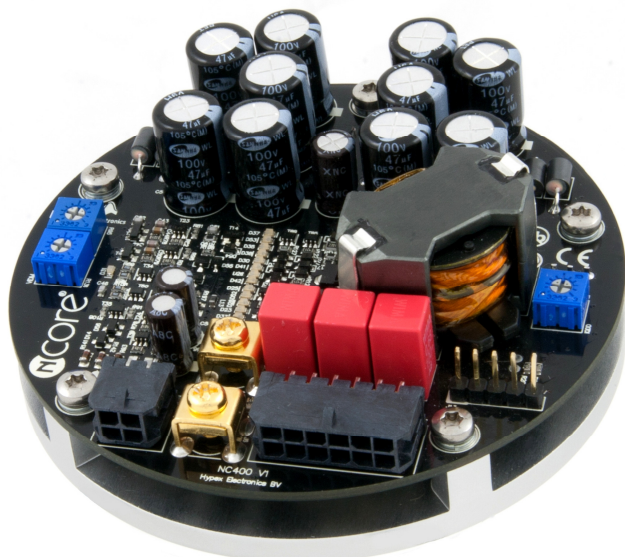


NC400 Definitive performance class D amp for DIY

! Caution: Please read the datasheet for more detailed information



Highlights

- Unprecedentedly low distortion over frequency and power range
- Unprecedentedly low output impedance
- Very low noise
- Neutral and transparent reproduction: "Neither dirt nor fairy dust"

Features

- Fully discrete signal path – no IC's
- Differential audio input
- Flexible power supply arrangement
- 24A current capability
- Extensive, microprocessor-controlled error protection

Applications

- No-compromise power amp module for audiophile DIY projects
- Active speakers, standalone power amps

1 Description

The NC400 amplifier module is an extremely high-quality audio power amplifier module which operates in class D. Not only does it offer a way for audiophile music reproduction to continue in an ever more energy-conscious world, its measured and sonic performance actually raises the bar for audio amplifiers of any description. Operation is based on a non-hysteresis 5th order self-oscillating control loop taking feedback only at the speaker output.

2 Absolute maximum ratings

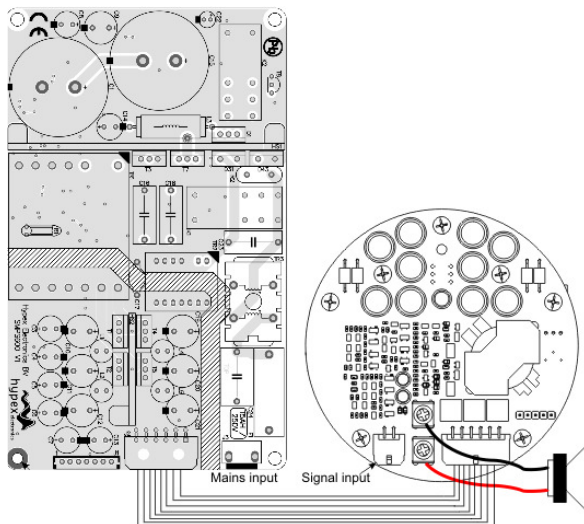
Correct operation at these limits is not guaranteed. Operation beyond these limits may result in irreversible damage.

Item	Symbol	Rating	Unit
Power supply voltage	VB	+/-75 ¹⁾	V
Air Temperature	TAMB	65	°C
Heat-sink temperature	TSINK	90	°C

Recommended Operating Conditions

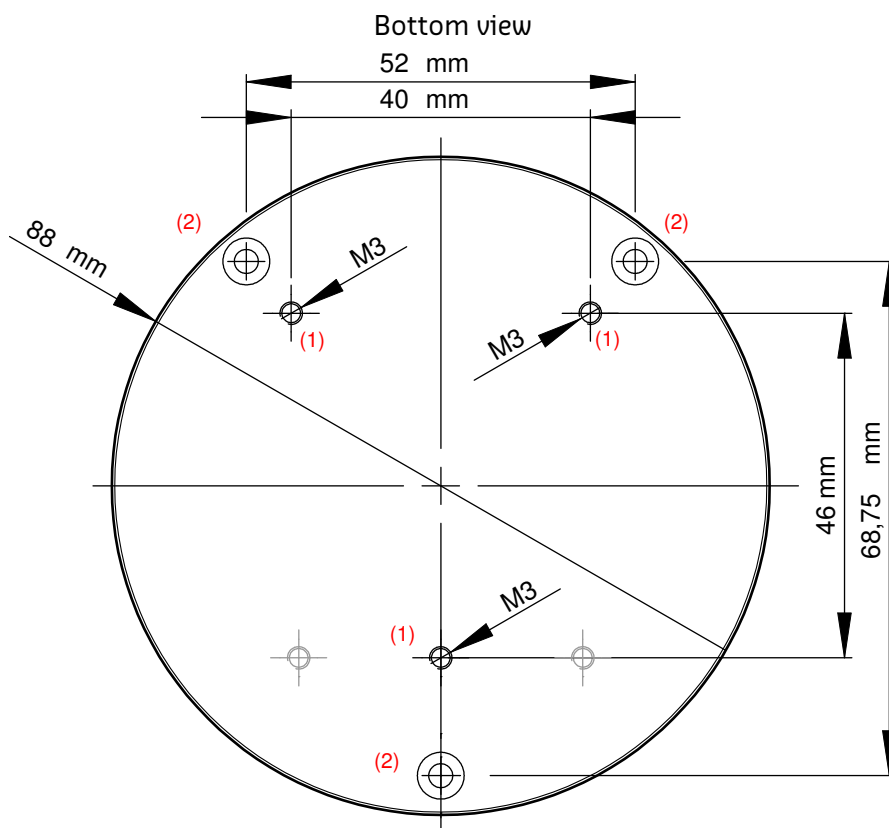
Item	Symbol	Min	Typ	Max	Unit
Power supply voltage	VB	35	+/- 64	75 ¹⁾	V

¹⁾Unit shuts down when either rail exceeds 75V

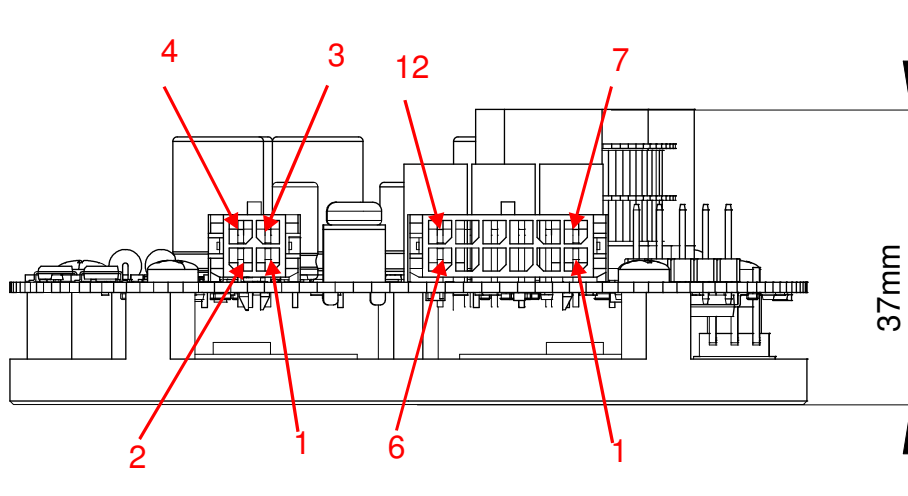


WARNING: These voltages can be potentially hazardous.

Dimensions



Front view / pin numbering



Document Revision	Description	Date
R1	Initial Draft	20.06.2012