

AW25 / AW25 DIN / AW25R DIN

STEREO AMPLIFIER UNITS

CODES

AW25

25W stereo amplifier module

AW25 DIN

25W stereo amplifier module, standard DIN guides

AW25R DIN

25W stereo amplifier module with volume control



DESCRIPTION

The models of the AW25 range are high-efficiency Class D stereo amplifiers. They are small and compact but extraordinarily powerful thanks to the high-quality components with which they are made. They are capable of high performance levels in terms of signal dynamics. The ease of installation, the compact size and the high quality of these amplifiers make them particularly suitable for professional use for separate broadcasting of sound to small areas (e.g. TV signal in hotel rooms, booths of wellbeing centres, signals from video projectors/personal computers in meeting rooms) or for mobile applications such as amplification for market stalls, ships, buses.

The unique feature of these amplifiers is that they can be used in three different modes, depending on requirements:

- **STEREO** Two stereo channels (LEFT+RIGHT)
- **BRIDGE** *mono* Single channel featuring a higher output power (bridge connection). If a stereo source is connected to them, the LEFT and RIGHT inputs are mixed.
- **PA** *mono* Two independent channels, the first of which for background music and the second (priority) for calls, by activation from an external contact. The typical sound-broadcasting application for interrupting the background music, by means of a control, when a handsfree call is received.

The basic **AW25** card can be installed directly inside electrical junction boxes or in false ceilings, while models **AW25-DIN** and **AW25R-DIN**, supplied with their own boxes, are suitable for installation on standard DIN guides.

The V.OUT service output enables the commutation between PA MONO mode and the activation of a signalling lamp (12/24VDC - max 3W) to confirm that the amplifier has switched on.

Contacts for remote volume control are provided, and if necessary it is possible to set operation simply as a booster unit (maximum volume on switching on).

Model **AW25R-DIN** has a trimmer-type volume control built into the internal circuit. This enables local adjustment of the volume of the two inputs, LEFT and RIGHT, in addition to any external volume controls. In this way, the output power will be determined by the level of the input power.

It is also possible to switch on the amplifiers from a remote station using a remote stand-by switch.

These specifications, combined with the possibility of powering the amplifier from a source ranging from 12 to 24 VDC, ensure excellent flexibility and versatility of installation.



TECHNICAL DATA

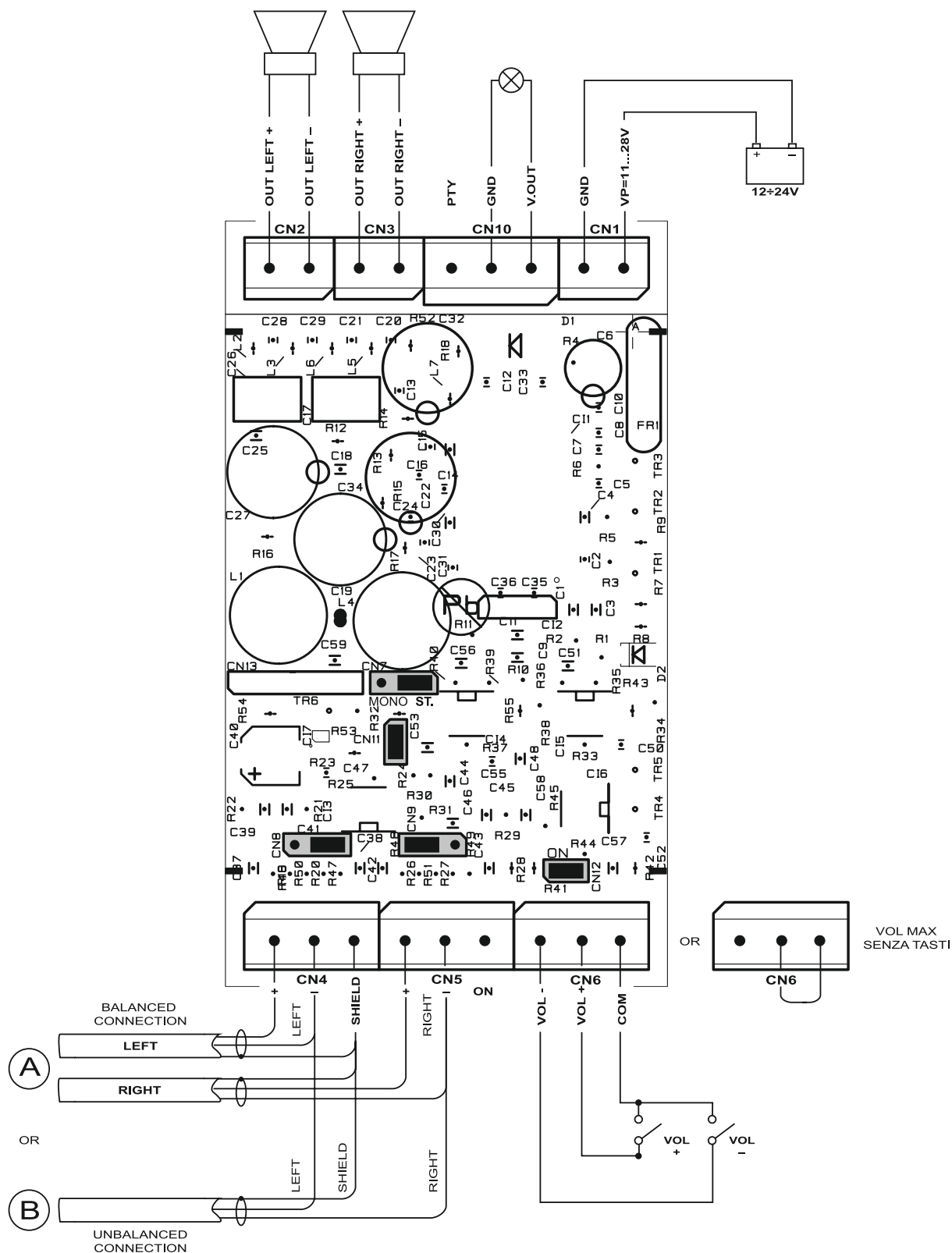
AW25 / AW25 DIN / AW25R DIN

MAINS POWER SUPPLY	MIN: 11 V / MAX: 28 V	
OPERATING MODE	2 STEREO CHANNELS	
Output power @12V _{dc}	RL=8Ω+ 8Ω	1,5+1,5W @ d=1% 2+2W @ d=10%
	RL=4Ω+ 4Ω	2,5+2,5W @ d=1% 3,5+3,5W @ d=10%
Output power @24V _{dc}	RL=8Ω+8Ω	7+7W @ d=1% 9+9W @ d=10%
	RL=4Ω+ 4Ω	11+11W @ d=1% 13+3,5W @ d=10%
LINE input sensitivity @12 V _{dc} /24V _{dc}	R/L	150/300 mV rms
HIGH LEVEL input sensitivity @12V _{dc} /24V _{dc}	R/L	max 10V rms
S/N ratio @12V _{dc} / @12V _{dc} ("A" weighted)	> 80 dB / > 82 dB	
S/N ratio @24V _{dc} / @24V _{dc} ("A" weighted)	> 85 dB / > 87 dB	
Frequency response	60 ÷ 20.000 H (0 ÷ -3 dB)	
V.OUT output @12/24V _{dc}	max 3W	
Maximum consumption @12/24V _{dc}	1 A / 1,7 A	
Minimum consumption @12V/24V _{dc}	60 mA / 70 mA	
Stand-by consumption @12/24V _{dc}	12 mA / 12 mA	

MAINS POWER SUPPLY	MIN: 11 V / MAX: 28 V	
OPERATING MODE	BRIDGE CHANNELS (MONO)	
Output power @12V _{dc}	RL=8Ω	6W @ d=1% 7,5@ d=10%
	RL=4Ω	10W @ d=1% 12,5W@ d=10%
Output power @24V _{dc}	RL=8Ω	25W @ d=1%
LINE input sensitivity @12 V _{dc} /24V _{dc}	R/L	150/300 mV rms
HIGH LEVEL input sensitivity @12V _{dc} /24V _{dc}	R/L	max 10V rms
S/N ratio @12V _{dc} / @12V _{dc} ("A" weighted)	> 80 dB / > 82 dB	
S/N ratio @24V _{dc} / @24V _{dc} ("A" weighted)	> 85 dB / > 87 dB	
Frequency response	40 ÷ 20.000 H (0 ÷ -3 dB)	
V.OUT output @12/24V _{dc}	max 3W	
Maximum consumption @12/24V _{dc}	1 A / 1,7 A	
Minimum consumption @12V/24V _{dc}	60 mA / 70 mA	
Stand-by consumption @12/24V _{dc}	12 mA / 12 mA	

STEREO MODE

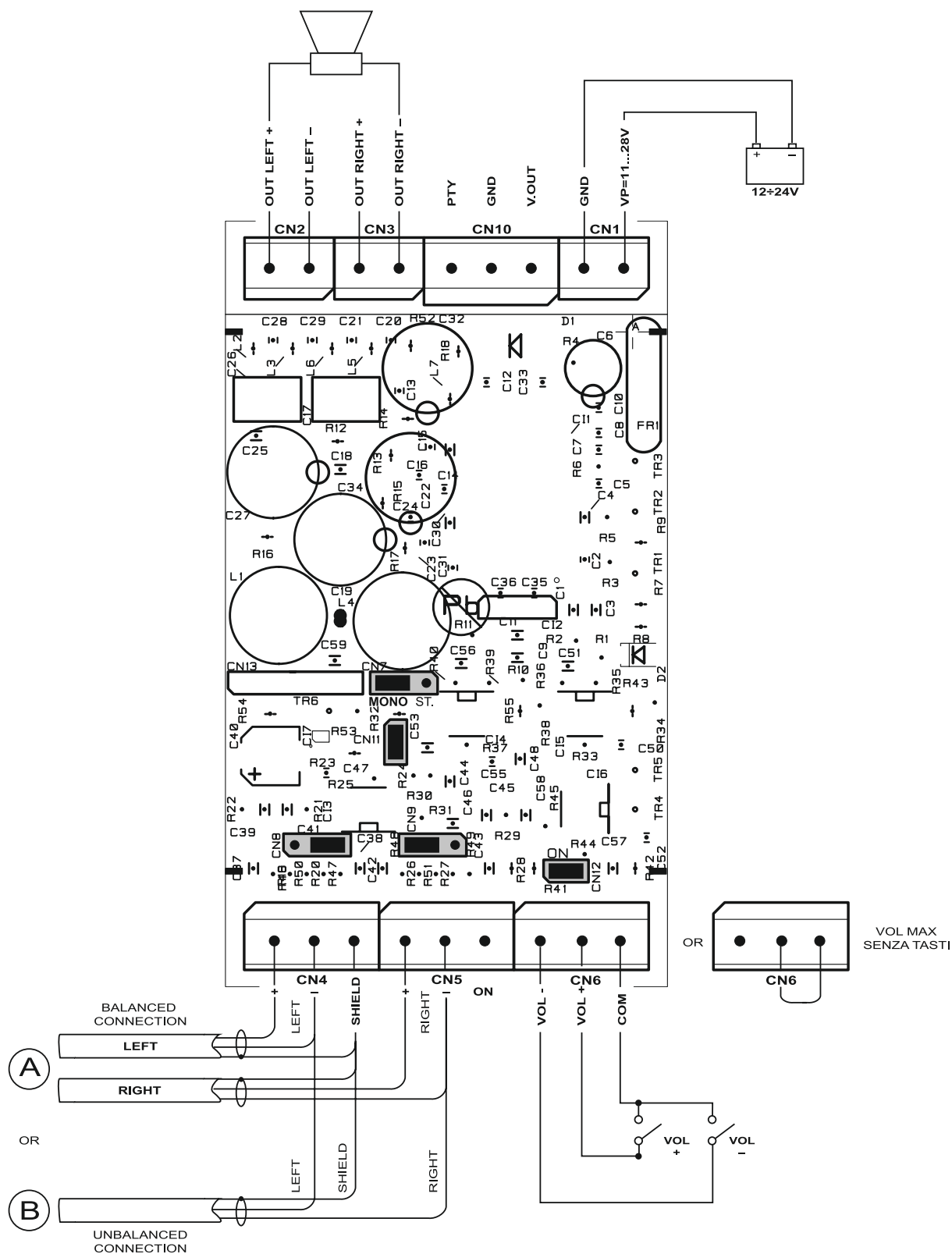
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BRIDGE MONO MODE

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PA MONO MODE

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