AMP20MK2

Mini stereo amplifier 2 x 15W

Highlights:

- Balanced stereo line input
- 1 x Microphone input
- Stereo & bridged mode
- Energy-star certified (version 3.0)
- Standby energy saving mode
- Compact design
- Remote wall mixer & volume controller option

Certification:

Product information:

The AMP20MK2 is a mini stereo power amplifier with a power rating of 2 x 15 Watt, that lends itself perfectly to small speaker systems requiring compact and economical audio solutions. It offers the ideal solution for applications such as class rooms, offices and meeting rooms where only a small amount of speakers are required. The compact size and very high efficiency makes it perfectly suited to be hidden in a closet, on a false ceiling or mounted under a desk or table. The combination of the stereo balanced line, with microphone input, makes it perfectly suited for applications where it should be used in combination with projection screens and video sources while a microphone is connected. Two gain potentiometers make it possible to control the sensitivity and balance between music and speech, while a switch allows bridging of the output channels to obtain one channel with merged output power. A remote wall mixer can be connected for applications where local mixing for the inputs is desirable, while large distances can be covered between the source and amplifier using simple CAT5 twisted pair cabling. The volume controller input allows connection of an additional wall controller for overall volume control. The Class-D amplifier technology, standby mode and included switching power supply makes this device compliant to the highest energy efficiency and environmental requirements.
A variety of optionally available mounting brackets for the AUDAC S-Box product range are allowing desk, closet or 19" equipment rack installation.

Applications:

- Education
- Corporate spaces
- Residential

System specifications:

RMS Power	@ 4 Ω Stereo		2 x 15 W
	@ 8 Ω Stereo		2 x 7.5 W
	@ 8 Ω Bridge		30 W
Inputs	Balanced Stereo	Type	1 x Stereo Balanced Line
		Connector	2 x 3-pin Euro Terminal Block (Pitch - 3.81 mm)
		Impedance	20 kΩ
		Sensitivity (1W/1m)	-12 dBV ~ +12 dBV
	Balanced Microphone	Type	1 x Balanced Microphone
		Connector	3-pin Euro Terminal Block (Pitch - 3.81 mm)
		Impedance	47 kΩ
		Sensitivity (1W/1m)	-50 dBV ~ -18 dBV
	Other	Connector	RJ45
		Type	1 x Remote Volume controller
		Connector	RJ45
Outputs	Type		1 x Stereo Loudspeaker
	Connector		4-pin Euro Terminal Block (Pitch - 5.08 mm)
THD+N (@ 1 kHz)			< 0.1%
Crosstalk (@ 1 kHz)			< -75 dB
Signal / Noise			> 95 dB
Power	Consumption	Standby	0.8 W (PSD241 included)
	Supply		24V DC (PSD241 switching Power supply included 100 ~ 240V AC / 47 ~ 63 Hz)
Efficiency			87%
Cooling			Convection cooled
Protection			Over heating
			Over load
			DC Short circuit
			Signal limiting
Energy certification			Energy Star 3.0

Product Features:

Dimensions	108 x 44 x 165 mm (W x H x D)
Weight	0.800 kg

Architects' and Engineers' Specifications:

The amplifier shall be a mini stereo power amplifier with an output power of 2 x 15 Watt. The amplifier shall be constructed using Class-D amplifier technology and shall be powered by an external switching power supply. Integrated circuitry shall protect against short-circuits or mismatched loads and over-heating. Due to the complete passive cooling of the device, an absolute zero production of hum and noise shall be ensured in all circumstances.

It shall contain a stereo balanced line and balanced microphone input whereof the sensitivity and balance between music and speech can be adjusted using two gain potentiometers on the front panel. Additionally a Stereo & Mono / Bridge switch shall be provided whereby both amplifier can be bridged, delivering merged output power to a mono load. A clip limiter shall automatically reduce the input gain at onset of distortion and connection possibilities for connecting a remote volume controller and remote wall mixer shall be provided.

All connections shall be made on the rear panel of the unit. The signal input connections shall be balanced and performed using 3-pin terminal block connectors while the output connections shall be performed using a 4-pin terminal block connector. The connections between the (optional) remote input and control units shall be made using twisted pair CAT5 cabling fitted with RJ45 connectors.

The automatic standby mode circuitry in combination with the high efficiency and the included power supply meeting the Efficiency Level V requirements shall make the device compliant to the Energy Star 3.0 requirements.
The amplifier shall operate on a 100 ~ 240 V AC / 50 ~60 Hz mains network and shall be constructed in a miniature aluminium housing which can be easily mounted and hidden using an optional mounting bracket.