

ALF120

High Performance Discreet Subwoofer

DATASHEET V2.0



Product Description

Utilising a highly efficient DTL (Distributed Transmission Line) design, the ALF120 is the perfect discreet subwoofer for installation into walls, ceilings or cabinetry.

Aimed at the high-end integrated home cinema market, the ALF120 also makes for a great addition to any Amina 2-channel system.

This passive subwoofer is capable of reproducing frequencies down to 27Hz at an incredible 111dB from just 50W, all with excellent accuracy, low group delay and minimal distortion.

Only 118mm deep and porting through a slot, designed to vent discreetly through an opening in the skirting board, the DTL design allows for easy installation into standard cavities while giving incredible sonic performance.

In order to protect the subwoofer once installed and to help achieve accurate audio integration into the rest of the system, it is critical that the ALF120 is used with a DSP amplifier or separate processor. For DSP settings please see DSP Requirements.



Mounting Options

ALF120 subwoofer installs straight into cavity walls, ceiling voids or furniture with a minimum cavity depth of 121mm, porting directly into the room through a slot vent which is to be cut in skirting board, ceiling or cabinetry as per installation guide.

Port location may be adjusted to allow for an 'end-fire' installation, specifically designed to allow the ALF120 to be installed flat, into furniture.

Please note that warranty is void if ALF120 is not used with required DSP settings.

Specifications

	ALF120
Nominal impedance	6 Ohms
Power handling	50W continuous
Sensitivity	96dB @ 1m/2.83Vrms (quarter space)
Frequency response	27Hz - 120Hz (± 6 db) 18dB/ octave band-pass
Maximum SPL	111dB @ 1m (half space)
Electrical connection	3-way binding post (4mm plug, spade or bare wire)
Dimensions	1605mm x 345mm x 118mm (63 ^{1/5} " x 13 ^{1/2} " x 4 ^{3/4} ")
Product weight	17.5Kg (38 ^{37/64} lbs)
Port locations	Side or base convertible
Port slot dimensions	308mm x 14mm (12" x 9/16")

Amina Technologies Limited

Cirrus House, Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, England

T: +44 (0) 1480 354390 | E: inspired@amina.co.uk | W: www.amina.co.uk

ALF120

High Performance Discreet Subwoofer

DATASHEET V2.0



DSP Requirements

The ALF120 is a highly sensitive passive discreet subwoofer, suitable for in-wall, ceiling or joinery installation. Due to the Distributed Transmission Line design and nature of the installation, the ALF120 requires DSP amplification to both protect the device from damage when overdriven, but to also allow for correct and accurate integration to the rest of the system.

If DSP settings are not used, you run the risk of permanent damage to the device, as well as impacting loudspeaker performance characteristics.

Warranty is void if DSP settings are not used with an amplifier set in accordance to these guidelines

Maximum Peak Input Voltage

17.5V

Bandpass Filter/Crossover

Filter	Frequency	Filter Type	Filter Slope
High Pass	24Hz	Linkwitz-Riley	48dB/Octave
Low Pass	135Hz	Linkwitz-Riley	48dB/Octave

Parametric EQ

Filter	Frequency	Gain	Q
PEQ1	175Hz	-10dB	10.0
PEQ2	120Hz	-8dB	10.0
PEQ3	54Hz	-2dB	3.5

Amina Technologies Limited

Cirrus House, Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, England

T: +44 (0) 1480 354390 | E: inspired@amina.co.uk | W: www.amina.co.uk