

ALF120

HIGH PERFORMANCE DISCREET SUBWOOFER

DATASHEET Rev. 2.4 | 28-1-2022 | E&OE



AMINA
IMMERSIVE INVISIBLE SOUND

Product Description

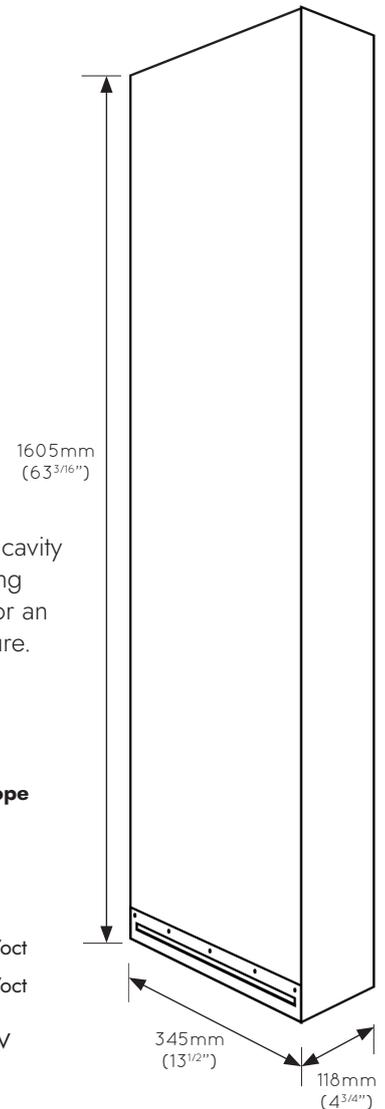
Utilising a highly efficient Distributed Transmission Line design, the ALF120 is the perfect discreet subwoofer for installation into walls, ceilings or cabinetry. This passive subwoofer is capable of reproducing frequencies down to 24Hz at an incredible 111dB from just 50W, all with excellent accuracy, 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 audio system, the ALF120 must be used with a DSP amplifier or separate processor.

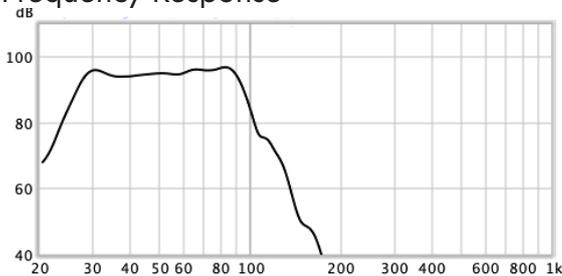
For DSP settings please see DSP requirements below.

Example Applications

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.



Frequency Response



DSP Settings

Filter	Freq.	Gain	Q/Slope
PEQ1	175Hz	-10dB	10
PEQ2	120Hz	-8dB	10
PEQ3	54Hz	-2dB	3.5
High Pass	24Hz	LR-8	48dB/oct
Low Pass	135Hz	LR-8	48dB/oct

Maximum peak Voltage: 17.5V

Specifications

ALF120	
Nominal impedance	6 Ohms
Power handling (continuous/peak)	50W/50W
Sensitivity (@1m/2.83Vrms)	93dB (half space)
Frequency response (-6dB)	24Hz - 120Hz (48dB/octave DSP band-pass)
Max SPL	108dB @ 1m (half space)
Electrical connection	3-way binding post (4mm plug, spade or bare wire)
Dimensions	1605mm x 345mm x 118mm (63 ^{3/16} " x 13 ^{1/2} " x 4 ^{3/4} ")
Product weight	17.5kg (38lb 9 ^{1/4} oz)
Port locations	Front or end-firing port locations.
Port slot dimensions	308mm x 14mm (12" x 9/16")
DSP requirements	HPF & LPF (LR 48dB/oct.), 3 bands PEQ, Voltage limiting
Manufacturer limited warranty	3 years (void if used without specified DSP protection)

Amina Technologies Limited

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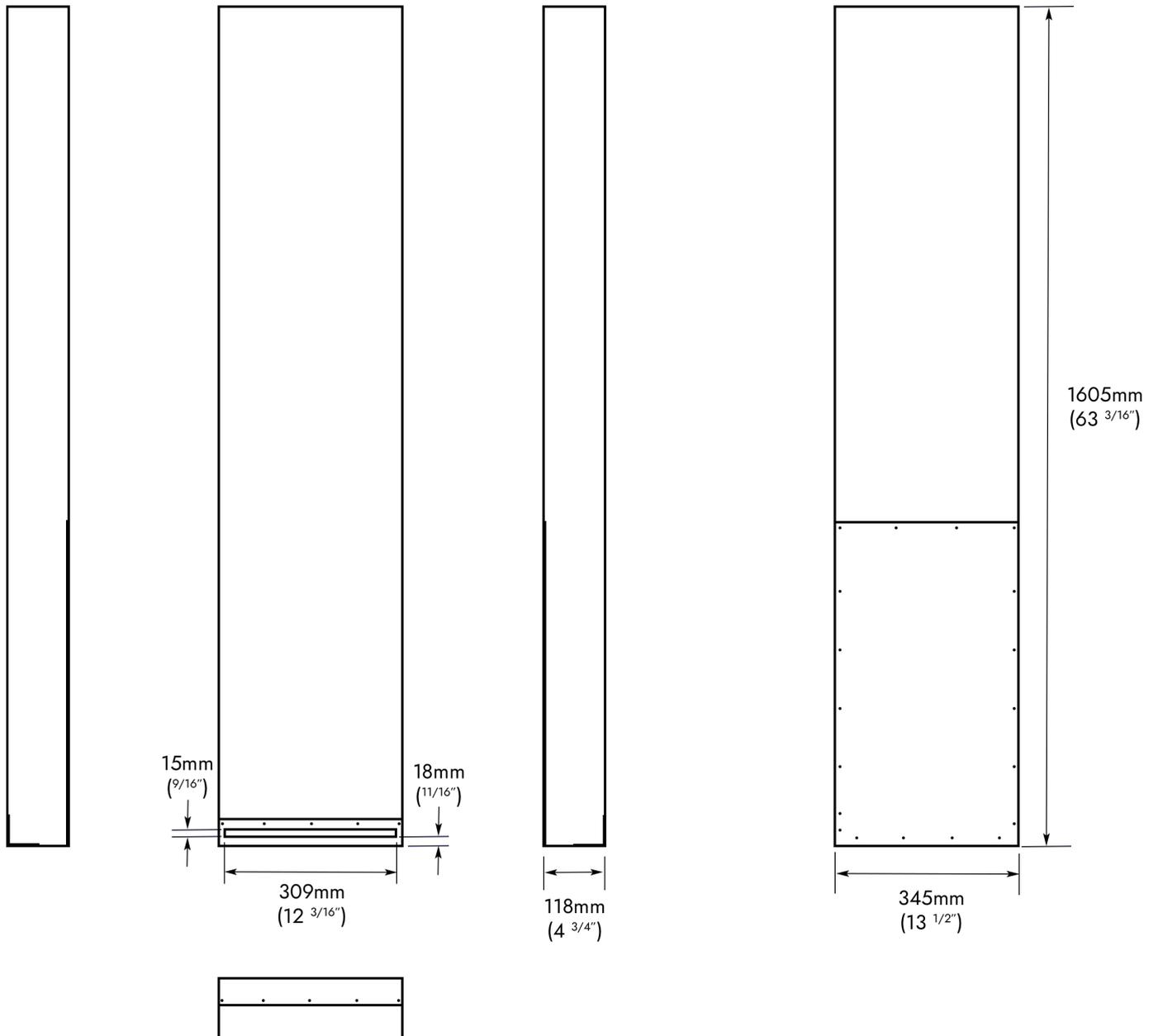
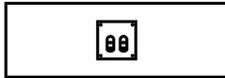
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Dimensions & Port Location



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