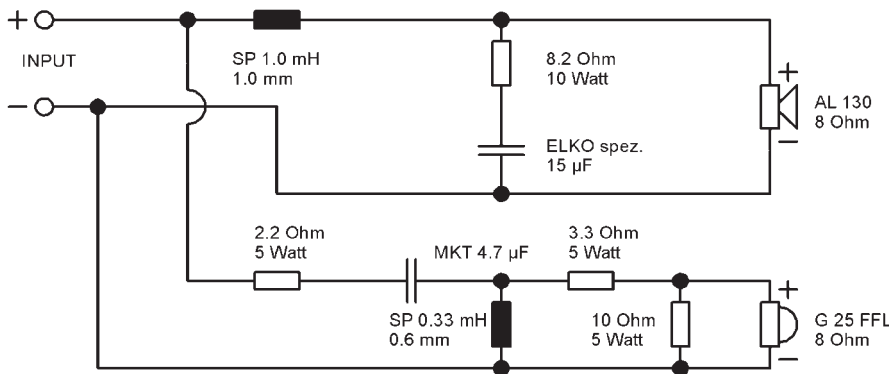


VIB MIKRO AL

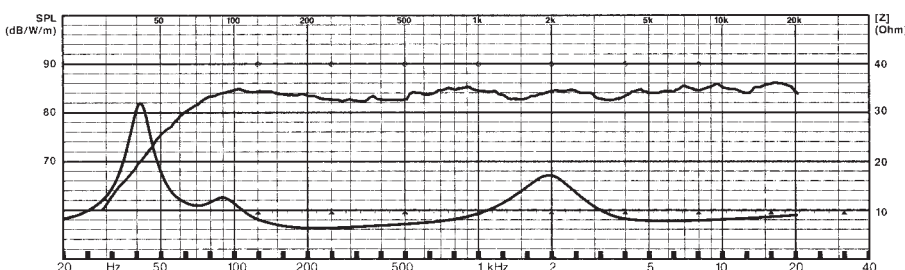
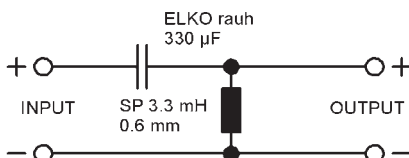


VIB MIKRO AL – Stand 24.05.2000



OPTION: Hochpass ; fg = 100 Hz

- Nur wenn VIB mikro AL geschlossen aufgebaut wird!
- Betrieb mit einem aktiven Subwoofer empfohlen.



Characteristics and sound properties

The VIB MIKRO AL is a small format shelf-mounted speaker with a passive radiator. In this 2-way combination, we have used a mid-bass AL 130 8 Ohm speaker with a G 25 FFL 8 Ohm tweeter. The speaker is characterised by well-balanced, clear sound output, good spatial separation and, for a shelf-mounted speaker, unbelievably low frequency extremes. With a volume of only 9 litres, the VIB MIKRO AL can be found a place in even the most cramped of households. A particular feature of the VIB MICRO AL is the passive radiator at the rear. But what is the advantage of a passive radiator? In principle, it has the same effect as a vent. However, it has been shown that, with small cabinets (i.e. the relationship between cabinet volume and cone area), tuning hardly produces any bass enhancement over an enclosed speaker. The passive radiator is completely different. Even if the relationship between cone surface area and net cabinet volume is unfavourable, the speaker is highly effective. The only drawback is that the maximum volume level in the low-frequency range is limited by the stroke of the radiator, making the VIB MICRO AL speaker less suitable for disco or techno music at loud volumes. In order to achieve as linear a frequency response as possible, a special crossover unit was designed, which produces the required effect in conjunction with the passive radiator, tuned to 60 Hz.

Technical Data

Nominal power handling:	60 Watt
Peak power handling:	90 Watt
Nominal impedance:	8 Ω
Frequency response:	48 – 25.000 Hz
Mean sound pressure (nominal):	84 dB (1 W/1 m)
Cut-off frequency:	2000 Hz

Principle of Housing: Passivmembran

Net volume:	9 l
Outer dimension:	Height: 300 mm
	Width: 200 mm
	Depth: 250 mm

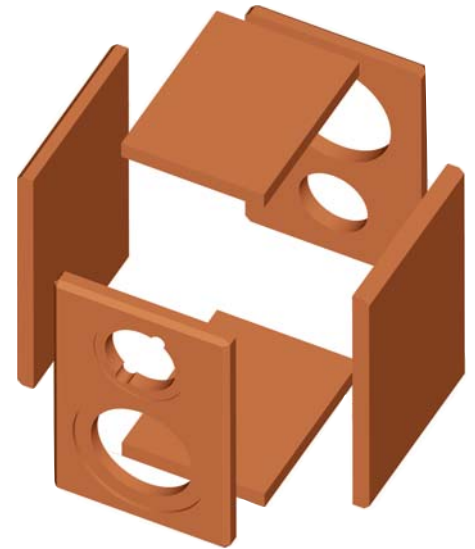
Component parts list for 1 box:

Tweeter:	G 25 FFL	8 Ω	
			1 piece
Bass-midrange driver:	AL 130	8 Ω	
			1 piece
Passive-cone kit:	in pairs		
Accessories:	Card board LTS 50		1 piece
	Glue		
Terminal:	ST 77		1 piece
Crossover:	„VIB mikro AL“		(in pairs)
Damping material:			1/2 bag
Wood screws:	3,5 x 19 mm		8 piece
Countersunk screws:	3,5 x 25 mm		8 piece
Cable	2 x 1,5 mm ²		1,5 m

Cabinet parts list for 1 box:

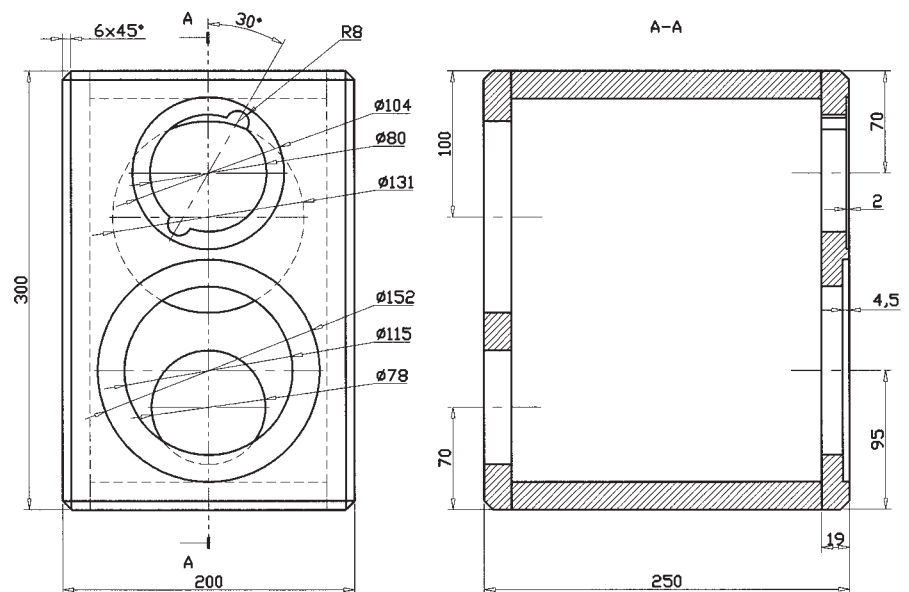
Material: 19 mm chipboard or MDF

Parts	Size (mm)	Quantity
Front and rear panel	300 x 200	2
Side panel	300 x 212	2
Top and bottom panel	212 x 162	2



Building instructions

The cut-out for the tweeter is made using the templates supplied with the speakers. The cabinet of the speaker has a chamfer to reduce edge reflection. This effect can be enhanced still more by flush mounting the two loudspeaker drivers in the baffle. This plus the compact dimensions of the front give the VIB MIKRO AL its excellent distribution characteristics. The crossover unit is mounted on the base of the cabinet.



Inner damping

The damping uses one mat of damping material rolled up and placed vertically into the cabinet.