



## Musway P2 - tiny two-channel power amplifier with powerful performance

# Two Channels pure

► So far we have seen modern DSP amplifiers from Musway. Now the Chinese are following up with the P2, a tiny two-channel power amplifier.

The Musway brand is the Chinese audio equipment market. Behind it is a young Chinese company with a very committed development department, which, in close cooperation with the Audiodesign sales department, wants to offer an alternative to the existing smart DSP toys for cars. After the six-channel M6 and the eight-channel D8, each of which houses a signal processor,

A kind of extension is now coming with the P2. Because the DSP power amplifiers have processed outputs and the P2 is predestined for them. P means pure, and so we have a two-channel power amplifier in front of us on which there is nothing to adjust apart from the sensitivity. Its great strength is its size or the lack of it, because at 123 x 75 x 38 millimeters it fits in the palm of your hand. Since she also eats high levels, she is

also a power amplifier for the radio slot, to ensure performance in a very unbureaucratic manner. Finally, the P2 is also start-stop capable, as you would expect from a 2018 development. Things are getting tight inside the tiny housing. After all, we find a full-fledged transformer power supply and two 1500 microfarad buffer capacitors before the amplification follows. Of course, this happens via an integrated power amplifier chip, which is responsible for both channels. The two low-pass coils then "iron" the PWM out of the amplified signal before it goes to the speakers.

### measurements and sound

The magic box does not take long to ask in the measurement laboratory and shows how cleanly it was developed. The fact that a power amplifier chip delivers a bandwidth of up to 60 kilohertz(!) is anything but a matter of course. And there is also power: after all, almost 70 watts come out of the P2 at 4 ohms and the good 100 watts at 2 ohms mean enough smoke to put a small 4-ohm sub on the



Purism: The gain control is the only control element on the Musway. Loudspeaker and power connections are made via plugs

**PRICE TIP**

upper class

**CAR & HiFi** 6/2018

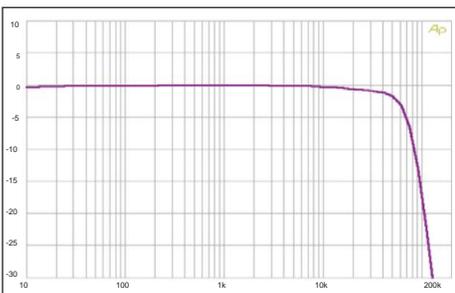
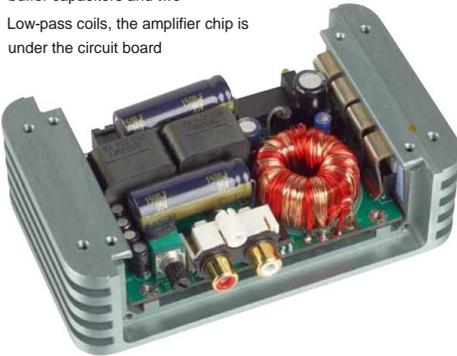
to help jumps. The other measurement results are also very pleasing. With extremely little distortion, the P2 shows once again how good the chip ends are these days. This also applies to the tonal performance, because here, too, the small size shows. Even in the lower bass range, it has enough power to give a retrofit compo powerful bass, and it also plays beautifully crisp and lively. There is also nothing to complain about in terms of spatial reproduction, so that the P2 can look forward to the competition on the market with its head held high.

**Conclusion**

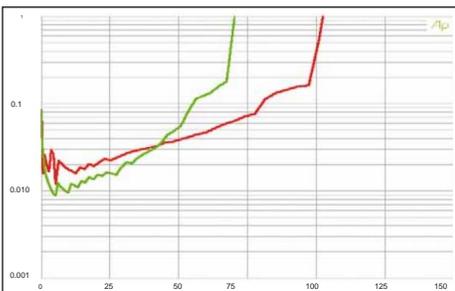
The Musway P2 is an enrichment of the offer. It is small, practical and inexpensive both as a two-channel expansion of the DSP power amplifiers and as a minimal solution for sound upgrades.

Elmar Michels

Small transformer power pack, two buffer capacitors and two  
Low-pass coils, the amplifier chip is under the circuit board



The Musway runs easily up to 60kHz, a super performance for a Class D power amp chip



A crisp 69 watts into 4 ohms and even 104 ohms 2 ohms come out of the tiny box

**Musway P2**

distribution	Audio Design, Kronau	
Hotline	07253 9465-0	
Internet	www.audiodesign.de	

▶ Klang	40 %	1,2 <span style="color:red">yyyyyy</span>
Bassfundament 8 %		1,5 <span style="color:red">yyyyyy</span>
neutrality	8 %	1,0 <span style="color:red">yyyyyy</span>
transparency	8 %	1,0 <span style="color:red">yyyyyy</span>
spatiality	8 %	1,0 <span style="color:red">yyyyyy</span>
dynamics	8 %	1,5 <span style="color:red">yyyyyy</span>
▶ Labor	35 %	1,9 <span style="color:red">yyyyyy</span>
performance	20 %	2,5 <span style="color:red">yyyyyy</span>
damping factor —		—
signal-to-noise ratio 5%		1,5 <span style="color:red">yyyyyy</span>
Klirrfactor	10 %	1,0 <span style="color:red">yyyyyy</span>
▶ practice	25 %	1,7 <span style="color:red">yyyyyy</span>
equipment proc.	15 %	2,0 <span style="color:red">yyyyyy</span>
Electronics 5% proc. Mechanics		1,5 <span style="color:red">yyyyyy</span>
5%		1,0 <span style="color:red">yyyyyy</span>

**Technical specifications**

Channels	2
Power 4 Ohm (x4/x2)	69
Power 2 ohms (x4/x2)	104
Power 1ohm (x4/x2)	0
Bridge power 4 ohms (x2/x1)	208
Bridge power 2 ohms (X2/x1)	0
Sensitivity max. mV Sensitivity	580
min. V THD+N (<22 kHz) 5 W	>13,3
THD+N (<22 kHz) Half load	0,012
signal-to-noise ratio dB(A)	0,023
	87
Damping factor 20 Hz Damping	47
factor 80 Hz Damping factor	46
400 Hz Damping factor 1 kHz	46
Damping factor 8 kHz Damping	43
factor 16 kHz	12
	3

**Furnishing**

Low-pass	-
High-pass	-
Band-pass	-
Bass boost Subsonic	-
fi lter Phase shift	-
High-level inputs	-
Auto switch-on (Autoscythe)	• (Adapter)
	• DC
RCA outputs Start-stop capability	Dimensions
(L x W x H in mm)	• (6.7 V)
	123 x 75 x 38
Miscellaneous	-

**valuation**

Price	around 150 euros	
Klang	40 %	1,2 <span style="color:red">yyyyyy</span>
Labor	35 %	1,9 <span style="color:red">yyyyyy</span>
Practice	25 %	1,7 <span style="color:red">yyyyyy</span>

**Musway P2**

Absolute top class	<b>1,6</b>
top class	
upper class	
entry level	Price / offer: Very good

**CAR & HiFi**

Edition 6/2018

"Small, practical, inexpensive - what more could you ask for?"