

TPA3116 dual chip ready amp bought at amazon about 33 euro
https://www.amazon.de/gp/product/B07KPSYHWF/ref=ppx_yo_dt_b_asin_title_o00_s00?ie=UTF8&psc=1

this configuration is with 2 chip set to PBTl Mode, and therefore just 1 opamp NE5532 is needed to build the inverted signal at the both inputs on the right channel

7.4.1 Mono Mode (PBTl)

The TPA311xD2-Q1 family can be connected in MONO mode enabling up to 100-W output power. This is done by:

- Connecting INPL and INNl directly to ground (without capacitors) to set the device in mono mode during power up
- Connecting OUTPR and OUTNR together for the positive speaker terminal and OUTNL and OUTPL together for the negative terminal
- Applying the analog input signal to INPR and INNl

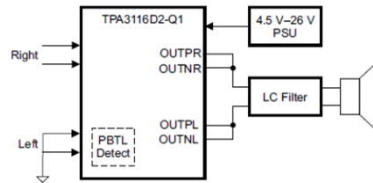


Figure 18. Mono Mode (PBTl)

pin 10 +11 set to GND without caps
 pin 4+5 is the R-channel input

output filter is recommended at 10μ and 1μ for PBTl

<https://www.divaudio.com/forums/class-d/311931-breeze-audio-tpa3116-2-0-100w-dual-chip.html>

Table 1. Gain and Master or Slave

MASTER / SLAVE MODE	GAIN	R1 (to GND) ⁽¹⁾	R2 (to GVDD) ⁽¹⁾	INPUT IMPEDANCE
Master	20 dB	5.6 kΩ	OPEN	60 kΩ
Master	26 dB	20 kΩ	100 kΩ	30 kΩ
Master	32 dB	39 kΩ	100 kΩ	15 kΩ
Master	36 dB	47 kΩ	75 kΩ	9 kΩ
Slave	20 dB	51 kΩ	51 kΩ	60 kΩ
Slave	26 dB	75 kΩ	47 kΩ	30 kΩ
Slave	32 dB	100 kΩ	39 kΩ	15 kΩ
Slave	36 dB	100 kΩ	16 kΩ	9 kΩ

(1) Resistor tolerance should be 5% or better.

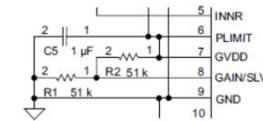


Figure 12. Gain, Master or Slave

20dB	R1	R2
so master chip	5,6k	open
slave chip	51k	51k

26dB	R1	R2
so master	20k	100k
slave chip	75k	47k