

Circuit power amplifier stereo audio with LM1875 – 2 x 20 watt

December 16, 2011 18867 7

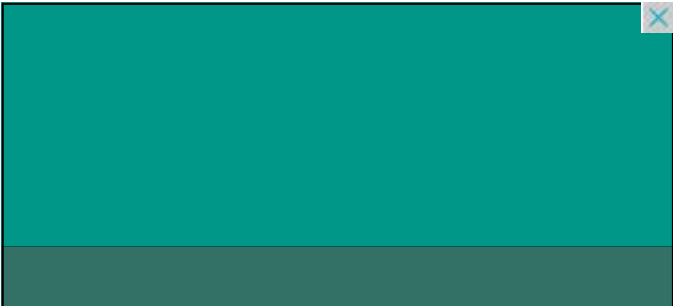
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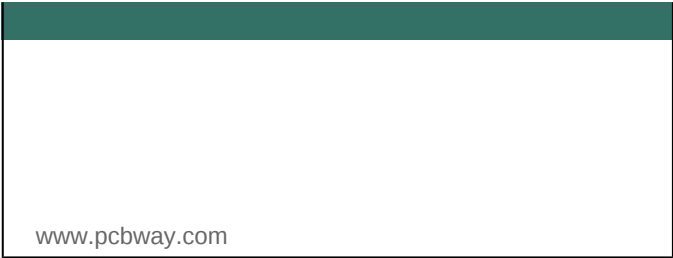
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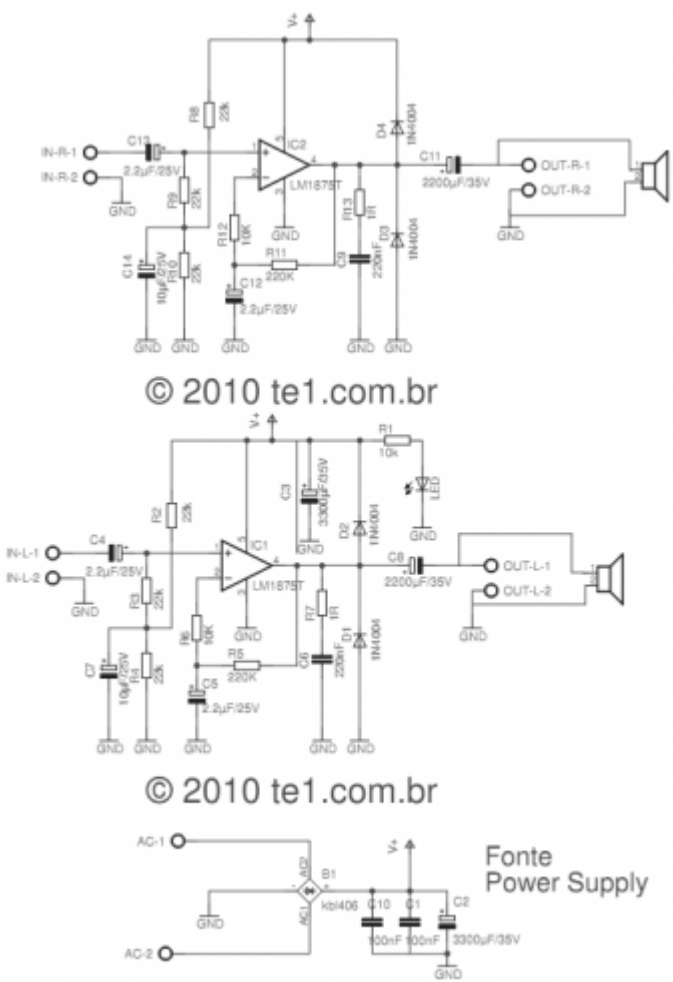




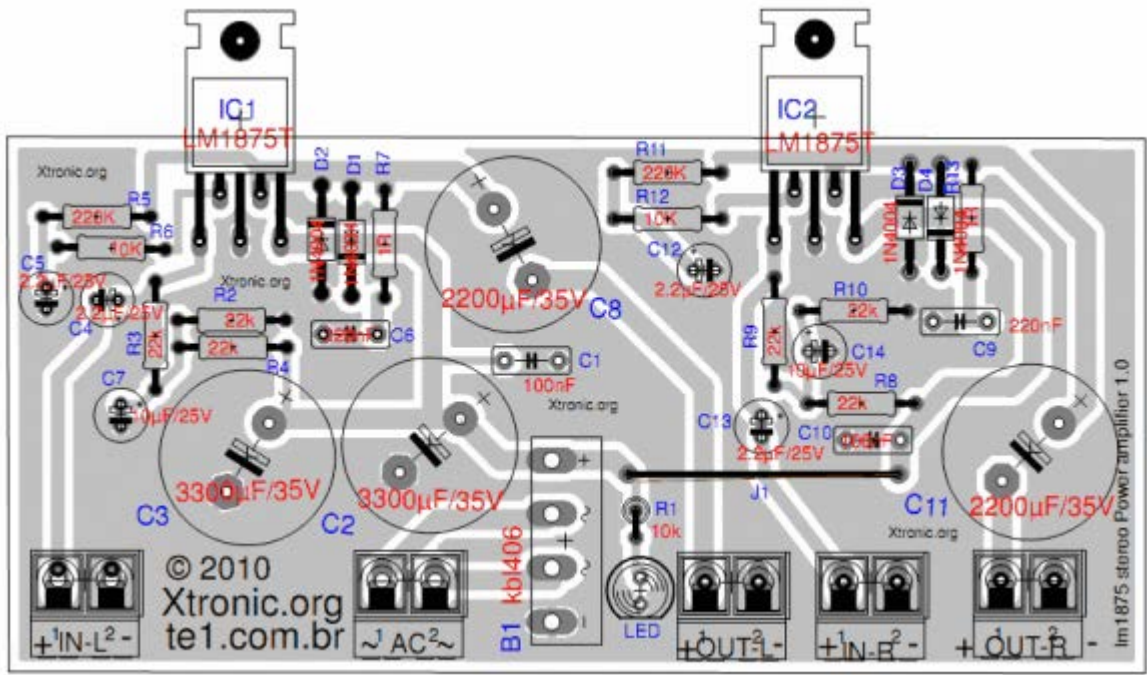
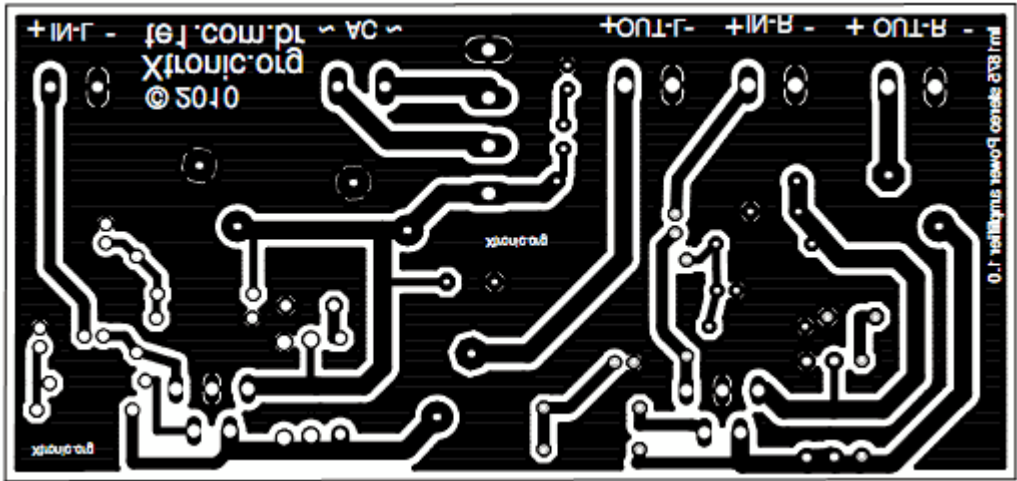
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This is an audio [amplifier circuit](#) using integrated LM1875 stereo to 2 x 20 Watts. With power supply for ease of assembly for any hobbyist. With a power of up to 20 Watts stereo amplifier that is suitable for use as power audio amplifier in various applications such as power amplifier for PC audio, FM radio, MP3 speaker, finally you're sure to find great uses for this amplifier with LM1875 easy to assemble.

Diagram of stereo power amplifier lm1875 – click to enlarge

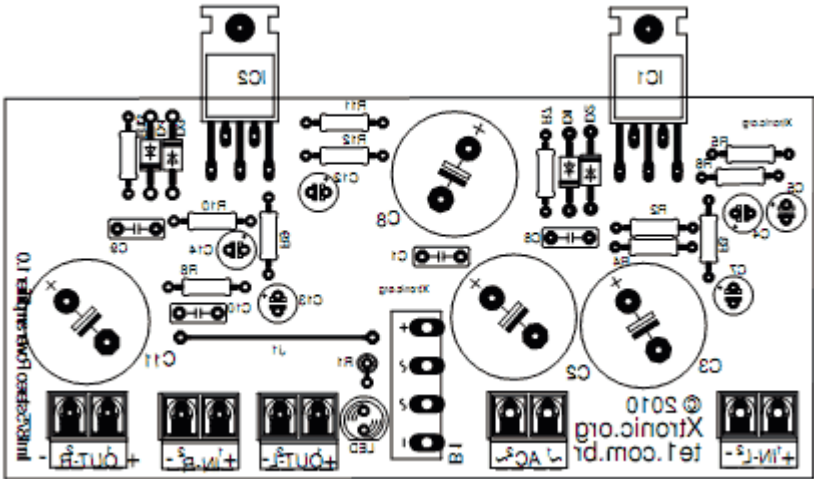


Suggested printed circuit board for mounting the amplifier chip LM 1875



Cheap &Fast PCB Prototype

\$12 for 10pcs 2 layer circuit board fabrication. Fast lead time of PCB



Part List for assembly of a stereo amplifier with LM1875

Parts	Value
Capacitors	
C1	100nF/63 V Polyester film or ceramic capacitor
C2, C3	3300µF/35V Polarized electrolytic capacitor
C4, C5, C12, C13	2.2µF/25V Polarized electrolytic capacitor
C6, C9	220nF/63V Polarized electrolytic capacitor
C7, C14	10µF/25V Polarized electrolytic capacitor
C8, C11	2200µF/35V Polarized electrolytic capacitor
Semiconductors	
D1, D2, D3, D4	1N4004
B1	KBL406 4A Bridge Rectifier or equivalent
LED	Red LED for mounting on the front panel
IC1, IC2	LM1875T
Connectors	
IN-L	Connector Left channel audio input
IN-R	Connector Right channel audio input
OUT-L	Connector Left Channel Audio Output
AC	Connector to the transformer
OUT-R	Connector Right channel audio Output
Resistors 1 / 4 watt 5 %	
R1, R6, R12	10k Brown, Black, Orange, Gold
R2, R3, R4, R8, R9, R10	22k Red, Red, Orange, Gold
R5, R11	220K Red, Red, Yellow, Gold
R7, R13	1R Brown, Black, Gold, Gold
Several	
J1 – Jumper – piece of wire	
Heat sink for the IC, printed circuit board, solder, Box to the amplifier, speakers, 30 watts 4 ohms	
Transformer – 12 to 18 VAC / 2A to 3A	

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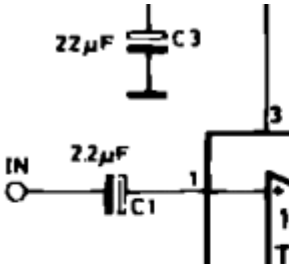
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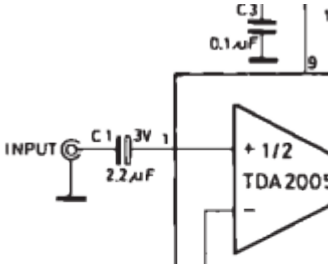
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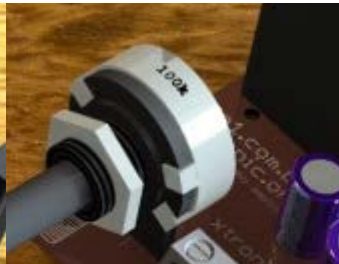
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Toni

<http://xtronic.org/>

Xtronic.org blog author. Electronics technician for the technical school of Brasilia - Brazil. Interested in electronics, circuits and technology in general.



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Anjum July 30, 2015 at 11:46 am
after making this circuit when i give power,there is a bang voice,what is the reason..plz guide

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Anjum July 12, 2015 at 7:30 am
sir
i need help regarding soldering diode which is with right side of 1R resistor,should it be soldered with +ve

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Hung May 8, 2014 at 9:32 pm
please print circuit pdf file. thank you!

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jack May 12, 2013 at 3:01 am

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harman stereo punjab india April 5, 2013 at 6:41 am

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electronist April 4, 2012 at 9:26 am

Why my left out make noisy sound, but the right one dont issue anything. That problem can be
related with suuply?
Help !!!!!!!!!!!

Reply



Mujtaba December 31, 2011 at 10:47 pm

Hey

Very good,that's like a professional project.Easy to make,assemble,looking beautiful....

Thanks.....

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