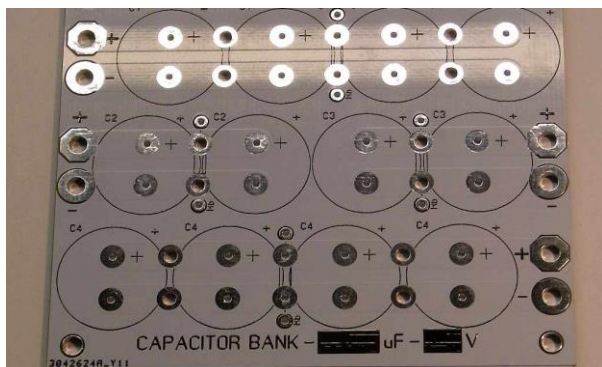
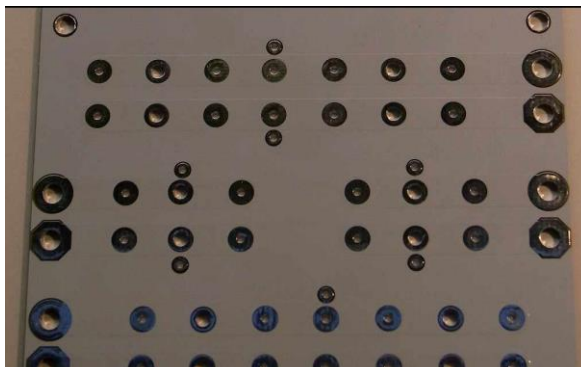


- Flexible Capacitor bank for power Supply
- Different Capacitances, Voltage sizes
- Bleeder resistors
- 2 oz copper (70µm) for high currents handling

- Compact and easy to be mounted
- Series, parallel configurations for CLC filters
- Dual Power Supplies



PCB Top View



PCB Bottom View

DESCRIPTION

The capacitor bank is a very flexible printed circuit that allows the creation of capacitor banks. Their use is in power supplies to filter the voltage after a rectifier bridge. With a bridge rectifier the printed circuit and a handful of capacitors make a rectifier in a matter of minutes. The capacitor bank was created to speed up laboratory work in making power supply amplifiers and power electronics. It's extremely easy and fast the design of complex filtering stages.

TECHNICAL DATA

PARAMETER	DESCRIPTION	VALUE			UNIT
		MIN	TYP	MAX	
C_{MAX}	Maximum capacitance		12.000		uF
V_{IN}	Maximum voltage		200		V
I_{IN}	Power Supply Current		10		A

PCB TECHNICAL DATA

PARAMETER	VALUE	UNIT
Dimensions Lenght x Width	85 x 73	mm
Colors	RED, WHITE, BLUE	
PCB thickness (RED, YELLOW)	1.6	mm
Layers	2	
Surface finish	HASL	
Copper Weight	2	oz
Material Details	FR4-Standard Tg 130-140C	

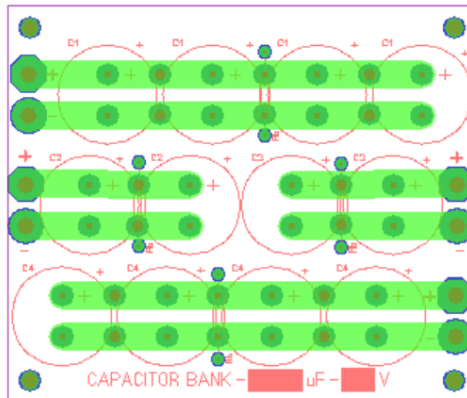


BILL OF MATERIALS

- C1a,C1b,C1c,C1d:
- C2a,C2b:
- C3a,C3b:
- C4a,C4b,C4c,C4d:
- R1,R2,R3,R4:

USER INFORMATION

Respect the polarity for the electrolytic capacitors as per following figure.



PCB References

CONFIGURATIONS

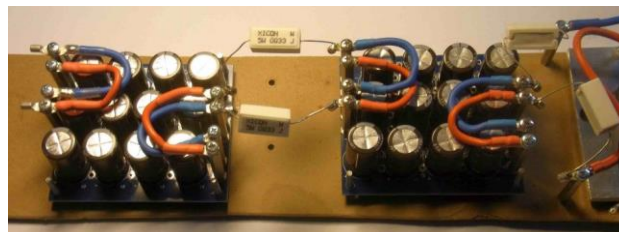
Following configurations are possible:

CONFIGURATION D = 18mm - p = 7.5mm	CAPACITANCE (uF)	VOLTAGE (Volts)
12 Caps 1000uF 50V	12.000	50
6 Caps 1000uF 50V + 6 Caps 1000uF 50V	6.000 + 6.000	50
12 Caps 470uF 100V	5.640	100
6 Caps 470uF 100V + 6 Caps 470uF 100V	2.820+2.820	100
12 Caps 220uF 200V	2.320	200
6 Caps 220uF 200V + 6 Caps 220uF 200V	1.160+1.160	200

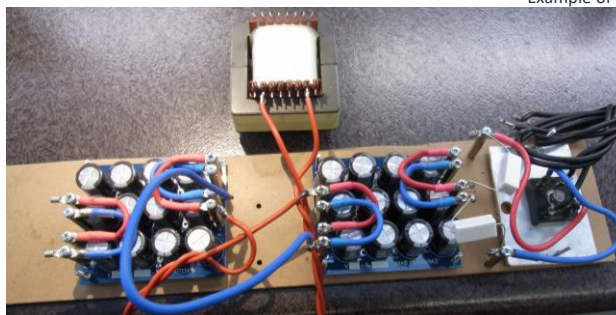
ADDITIONAL INFORMATION



Example of a parallel bank



Example of a CLC Filter



Example of a CLC Filter using two capacitor banks

ORDERING INFORMATION

pieraisaforum@gmail.com



**Pier Aisa Electronic
Community Forum**

<https://pieraisa.it/forum/> pieraisaforum@gmail.com