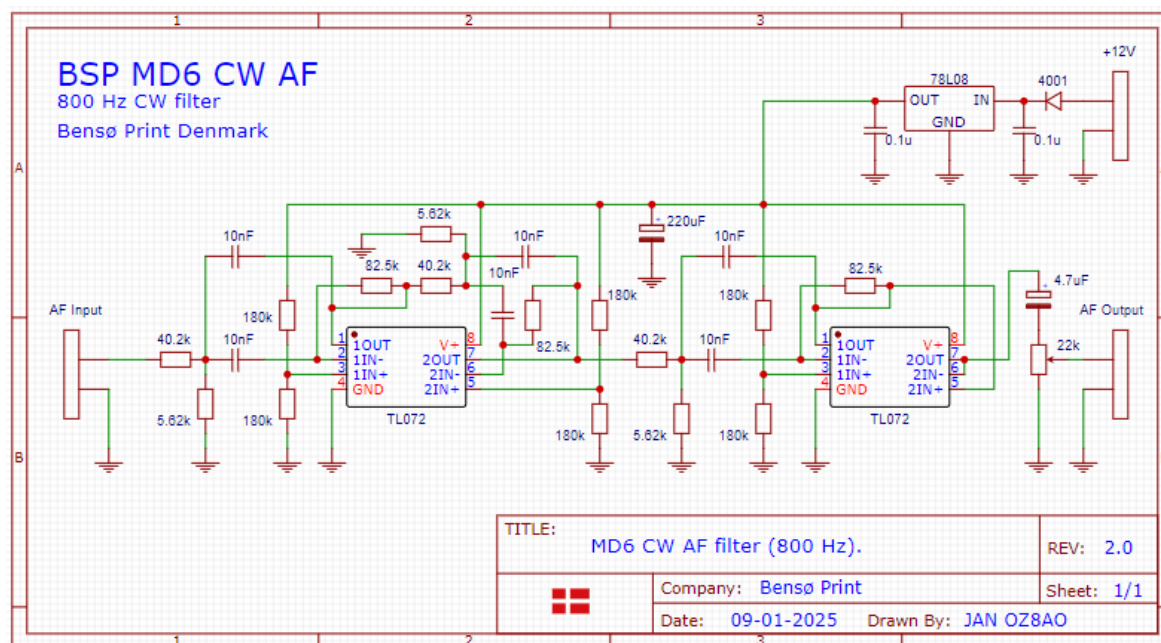
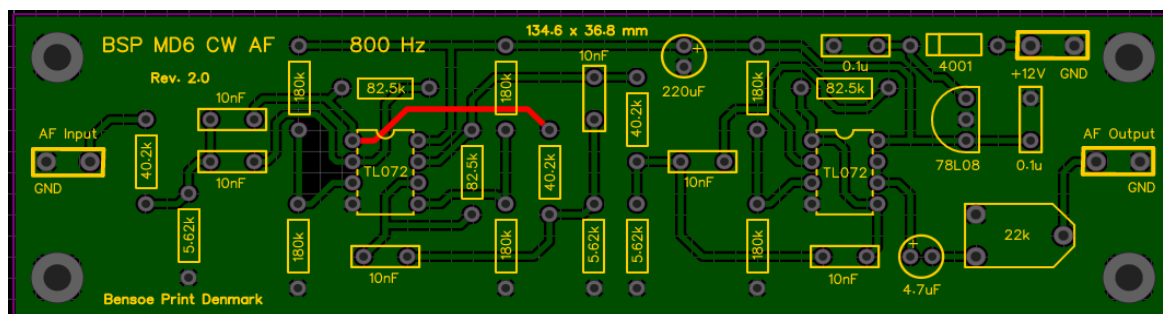


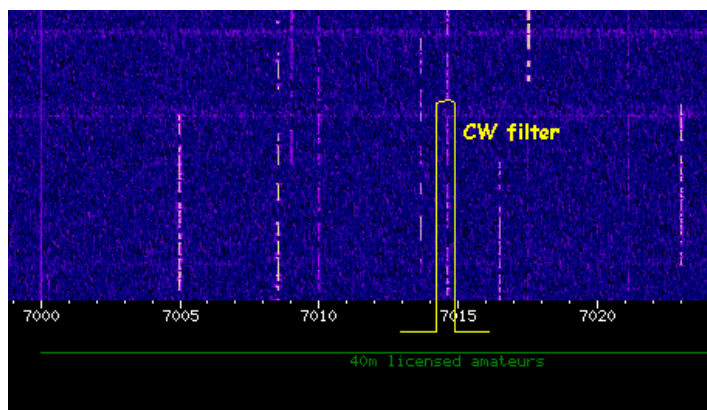
Instructions for mounting of the BSP module MD6 CW-AF

Bensø Print Denmark.

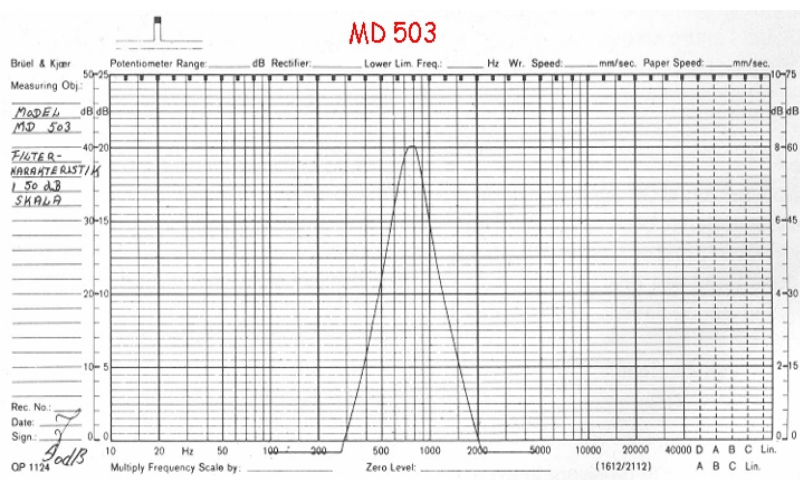


Description:

The BSP MD6 CW-AF is a narrow AF filter that primarily only let audio signals around 800 Hz through. The filter is a great help when listening to telegraphy (CW), as it attenuates other often 'close proximity' CW signals.

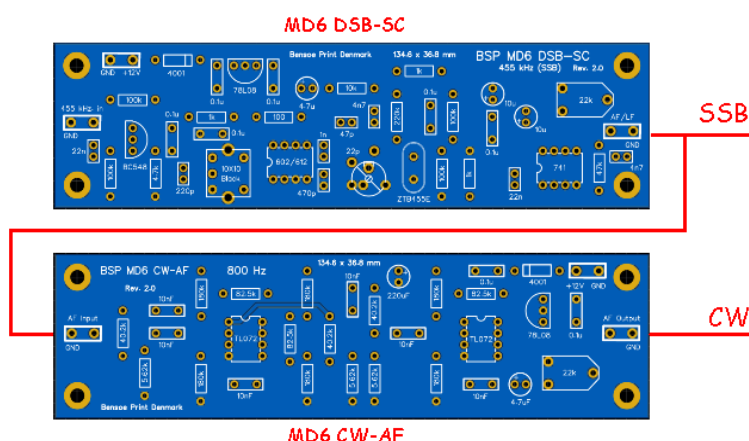


Typical CW signals on, for example, 40 meters and use of the filter.



Filter curve from the original 'BSP MD503 CW filter' (1978), of which the MD6 CW-AF is a 'modern' version.

Filter curve from the original 'BSP MD503 CW filter' (1978), of which the MD6 CW-AF is a 'modern version'. In addition to a center frequency of 800 Hz, the filter can process signals up to 4V p/p with a combined '1:1 gain' and very low distortion. The filter is simply connected, via a switch (SSB/CW) to the AF output of 'MD6 DSB-SC'.

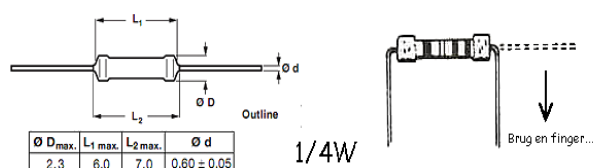


See more details in our 'Applications Notes'.

Mounting the PCB:

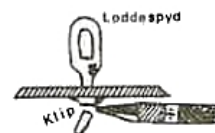
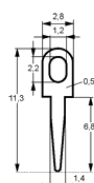
It is recommended that a soldering tip with the same width as the diameter of the small pads (2mm) is used, with 'reasonably thin' solder lead.

Should you happen to misplace a component in the plated solder pad, then use a 'solder wick' or a desoldering pump, first from the top (if possible) and then from the bottom.



To create some distance between the print itself and the bottom of the 'soon-to-be cabinet', start by mounting 3 mm. threaded rods or 'solderable brass tubes' in the four mounting holes.

If you use brass tubes without threads, you can initially mount them into the 'four mont holes' with a 3 mm screw and nut, solder the tube onto the print and remove the bolt and nut again. Be careful... A soldered brass tube stays hot for quite a while.



Then install:

All solder pins. Then mount the 'lowest components' first, resistors, two-module capacitors (10 and 100 nF.), 78L08, ICs and the electrolytic capacitors.

Testing:

If the assembly is done correctly and no components are defective, then the module should work immediately when the power is connected for the first time.

When the module is fully assembled, connect 12V and turn the trim potentiometer on the output all the way up.

You can, for example, connect it as it is to be used, between the DSB/SSB module and the AF amplifier, or if you have access to a tone generator and a scope, that is also a good method.

As long as the distances are not too long, you can use an 'unshielded wire' to these connections.

Parts list:

Resistors: (1/4 W 7 mm):

5,62k 3 pcs. 40,2k 3 pcs. 82,5k 3 pcs. 180k 6 pcs.

Trim potm.:

22k hoz. 1 pcs.

Capacitors: MKT 2 modul:

10nF 6 pcs. 100nF 2 pcs.

Electrolyte: 1 modul vertikal:

4,7uF 1 pcs. 220uF 1 pcs.

Diode:

1N4001 1 pcs.

ICs:

78L08 1 pcs.

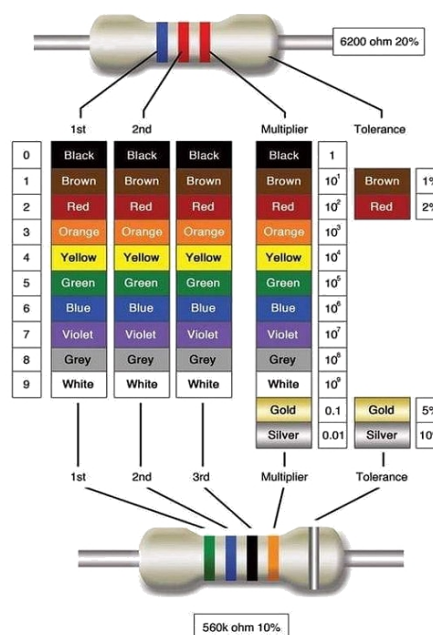
TL072 2 pcs.

Solder pins:

1,2mm hul 6 pcs.

PCB:

BSP MD6 CW-AF.



Component purchase:

Bensø Print:

[Project2024](#)

[Price List](#)

and

Local dealers in your country....



Bensø print Hillerød
Engparken 35
[3400 Hillerød.](#)