25/6/2012



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Kit contents:

- 1) Preassembled PCB
- 2) 4 pcs. Red core inductors (12 uH)
- 3) 20 pin male pcb connector
- 4) SPDT relay
- 5) Assembled flat ribbon cable with connectors
- 6) SMA-female connector
- 7) BNC female connector (2 pcs. If ordered as Upgrade)
- 8) 3 pcs. Blue core inductors (4,7 uH)
- 9) Assembled PTFE-cable with SMA-male connector
- 10) Jack 3,5mm stereo connector
- 11) Dual Led block
- 12) 5 pcs. Reed-Relay



Assembly the 20-pin connector (SV1): take care about the right orientation of pin 1. See the white documentation print on the surface of pcb.





Assembly the BNC connectors: take care about an exact alignment with the white documentation print on the surface of pcb.







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Assembly the Jack 3,5mm stereo connector (X4):





5

Assembly the dual Led block (DZ1):







6

Assembly the SPDT Relay (K6):



7

Assembly the Reed-relays (K1-K5):



Assembly the reed relays (K1-K5):







Assembly the toroidal inductors (L1-L7):



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Assembly the toroidal inductors (L1-L7): choose the right orientation of each inductor to fit all supports on the PCB.





Assembly the SMA connector (X2): do not fit the connector on the PCB, but keep a distrance of about 1,5mm from the PCB. (X1 is reserved for a MMCX-series connector)



JP2 RF input point - Coaxial cable soldering (for all PMSDR2-boards)



Coaxial cable assembly overview







Assembled board overview Connections to the PMSDR board







1 - Rear panel for an existing PMSDR (Upgrade option)



2 - Rear panel for a to be assembled PMSDR (do not assembly the BNC-connector on the PMSDRboard)





Software updates:

The Filterboard require:

- <u>PMSDR-Firmware Version 2.4.0 or higher</u> (The message "Switch/Filter Ok" will be appear during the startup on the LCD) and

- ExtIO-DLL Version 3.8r0 or higher.

The latest releases and firmware installation guide can be downloaded here: http://www.iw3aut.altervista.org/downloads.htm

	🗱 PMSDR	
Filter 2 can be tuned also manually	Advanced Settings	
	Quick Tune Sked CAT TMate	
	About Debug Filters	The groupbox "FilterBoard" is
	Automatic Filter Selection	visible only if the Filterbaord are
	Preselector	detected by the r MODIX
	Pass through Fitter 1: 2500,6000 kHz	7
	O Filter 2: 6000-13000 kHz	
	O Filter 3: 12000-30000 kHz	
	◯ Filter 4: 100-2500 kHz	
	FilterBoard	A fine filter calibration for the
	Filter 1 coars tune	whole band can be done here,
		Where you change the value
		and check the result on the fly.
	Automatic tuning 1,688	with "Save Calibration"
	Automatic tuning	with Save Calibration
	Pass through	
	• Filter 1 (280 - 7300 kHz)	
	O Filter 2 (7300 - 80000 kHz)	
	Filter 1 calibration -> 0	
	Save Calibration	19

Modification to able to receive at the same time with the PMSDR and transceiver:

This mod able to receive at the same time with the PMSDR and transceiver. The only disadvantage is a loss about 3dB, but i think that is only a small problem in the most cases.

The benefit would be that you can use the receiver(s) on your transciever at the same time you can watch the spectrum display on the PMSDR.

The mod consist only in a simple piece of wire to solder on the solder side of the switchboard. Therefore is to close the red solder jumper (SJ1) as shown on the schematic below.



