

## SMR4P-multi shipping list

Packliste SMKR4P-Multi	V1.03		
V1-03-03 30.11.17			
Bag 1 , analog board V1.03	Stück	Bezeichnung	OK
active parts			
IC2,IC 14,IC15	3	LM13700NOPB	
IC5,IC6	2	TL074	
IC8	1	TL072	
IC13	1	CD4053	must be CMOS
IC9	1	79L08	
IC3	1	78L08	
IC socket	4	16 pin	
IC socket	2	14pin	
IC socket	1	8pin	
K10	1	2x6	Pfostenstecker male
K3	1	2x10	Pfostenstecker male
K2	1	2x5	Pfostenstecker male
L2,L3	2	10uH	Spule/coil
T1,T2,T3,T4	4	2N3906	Transistoren
D16,D17	2	1N5819	Dioden
F1,F2	2	Fuse	Sicherungen 100 mA
Schraube M3-6MM	1		
Bolzen Male/Female	1		10mm
Unterlegscheibe	2		Kunststoff 0,5mm
Kondensatoren/capacitors			
C38,C45	2	100uF elko	miniatur
C13,C32,C30	3	4,7uF elko	miniatur
C20	1	10pF	Keramik
C37,C27,C29	3	100p	Keramik
C12,C17	2	3,3nF	Keramik
C19	1	10nF	Keramik
C5,C22,C34,C25	4	330pF	Folie/Wima 2,5mm
C10	1	220nF	Keramik
C40,47,41,48,46,39,33,51,50,11,21,31,15	13	100nF	Keramik
Widerstände/resistors			
R11	1	20K	Trimmer
R59	1	68	Metallfilm
R31,R18,R29,R39,R72	5	220	Metallfilm
R58,R19	2	1k	Metallfilm
R65,R71,23	3	2,2K	Metallfilm
R37,35,28,32,36,34,27,30,55,16,17,63	12	10K	Metallfilm
R2	1	12k	Metallfilm
R21,38	2	15K	Metallfilm
R20,57,67	3	22k	Metallfilm
R13	1	33k	Metallfilm
R14	1	47K	Metallfilm
R70	1	86,6K	Metallfilm
R24	1	115k	Metallfilm
R22	1	120k	Metallfilm
R66	1	180k	Metallfilm
R60	1	510K	Metallfilm

## SMR4P-multi shipping list

control board V1.03				OK
<b>active parts</b>				
IC1	1	Atmega 328P-PU	CPU	
IC10	1	78L05	Spannungsversorgung 5V	
IC4	1	CD4051	must be CMOS	
IC7,IC12	2	TL072		
X4	1	MCP6002	rail to rail	
IC socket	1	28pin	CPU	
IC socket	1	16 pin		
IC socket	3	8 pin		
D1	1	1N4148		
K1	1	2x3	Pfostenstecker male	
K6	1	2x8	Pfostenstecker male	
K5	1	2x10	Pfostenstecker male	
K4	1	2x10	Pfostenbuchse female	
K8	1	2x6	Pfostenbuchse female	
L4	1	10uH	Spule/coil	
Bolzen Male/Female 11mm	1	Spacer	10 mm	
Unterlegscheibe 3,2x 0,5 mm	2	Washer		
<b>Kondensatoren/capacitors</b>				
C36	1	4,7uF elko	miniatur	
C23	1	10pF	Keramik	
C16	1	100pF	Keramik	
C7	1	3,3nF	Keramik	
C42,43,44,3,4,6,18,24,53,35,52,49	12	100nF	Keramik	
<b>Widerstände/resistors</b>				
R61	1		68 Metallfilm	
R5,6,7,8	4		470 Metallfilm	
R62	1	4,7K	Metallfilm	
R1,41	2	10K	Metallfilm	
R12	1	22k	Metallfilm	
R64	1	27k	Metallfilm	
R56	1	16,5k	Metallfilm	
R73	1	24,9K	Metallfilm	
R52,48,49	3	33,2K	Metallfilm	
R44,68	2	47K	Metallfilm	
R53,54,51,9,45,40	6	49,9k	Metallfilm	
R33	1	68k	Metallfilm	
R10	1	82k	Metallfilm	
R3,4,15,25,26,42,43,46,47,50,69	11	100k	Metallfilm	

Pannel Board				OK
Cut,Res,FM,FMOD	4	10K	Potis, 6MM axis, D-Shaft	
Knobs black	4		Davies 6mm D-Shaft	
D19,20,21,22,23,24,25,27,28,29,30,31,32,33,26	15	LED green		
C14,9,8	3	100nF	Keramik	
Plug 3,5mm Thonkinkong	8		3,5mm plug fem	
Nuts for Thonkingkong	8		Nuts	
K9	1	2x8	Pfostenbuchse female	
K7	1	2x10	Pfostenbuchse female	

Zubehör				OK
Platine /PCB	1	PCB		
Frontblende/Frontpanel	1	Frontpanel		
Kabel Spannungsversorgung/Cable power	1	Cable- Power		
Flyer	1	TubeOhm Flyer		
Victory Candy	1			