

BOM APR48 Programmer V2B

#	RefDes	Value	Name		
1	C1	47uF/16V	CAPAE_4.3x4.3		
2	C2	100n	CAP_0805		
3	C3	100n	CAP_0805		
4	C4	100n	CAP_0805		
5	C5	100n	CAP_0805		
6	C17	100n	CAP_0805		
7	D1	7V5	DIO_Z (SMA)	* optional	
8	D2	1N4148	DIO (SOD123)		
9	D3	RD	LED 1206		
10	D4	SS14L	DIO_S (SMA)		
11	D5	GN	LED 0805		
12	J1	ext. PWR	90131-0121	* optional	
13	J2	Data	HDR-1x6	CP2102 USB - USART TTL	Makershop.de
14	J3	senkrecht, 6-pol	ISP-Header (Wanne, 180g)		
18	L4	10uH	IND_0805		
19	Q4	AO3413	FET-P (SOT23)		
20	R1	0R	RES_0805	* only for ATmega328P	
21	R2	0R	RES_0805	* only for ATmega328P	
22	R3	1k	RES_0805		
23	R4	10k	RES_0805		
24	R5	470	RES_0805		
25	R11	470	RES_0805		
26	R12	470	RES_0805		
27	R13	470	RES_0805		
28	R14	470	RES_0805		
29	R15	1k	RES_0805		
30	R16	1k8	RES_0805		
31	R17	47k	RES_0805		
32	R1A	0R	RES_1206	* default	
33	R1B	0R	RES_1206	* optional, alternativ zu R1A	
34	U1		ATMEGA328P_TQFP32	alternative ATmega328PB	
35	U2	3V3	TS78LXX SOT23		