

Ref Name	Qty	Component	Value	Package	Manufacturer	MPN	Farnell	Reichelt	Description
PL1	1	1x1WP		PIN					Pin Header
T1	1	2N2222	BC337	TO92A				BC 337-40	NPN TRANSISTOR
OK1, OK2	2	6N136	6N136, HCPL4502	DIL				6N 136	Opto Coupler with open collector
IC4	1	78XXS	78L05	TO92				LP 2950 ACZ5,0	VOLTAGE REGULATOR
J1, J2	2	520250-3		520250-3			1536490	MEBP 6-6S	AMP CONNECTOR
C17	1	C2,5-3	47p	C025				KERKO 47P	CAPACITOR grid 2.54 mm
C13, C16	2	C2,5-3	100n	C025				X7R-5 100N	CAPACITOR grid 2.54 mm
C12	1	CPOL_RM2_D5	4.7µ	E2_D5				RAD 4,7/35	ELECTROLYTIC CAPACITOR grid 2mm, Ø 5mm
C11	1	CPOL_RM2.5_D7	47uF/35V	THT				RAD 47/35	ELECTROLYTIC CAPACITOR grid 2.54 mm, Ø 7 mm
D4, D5	2	Diode bedrahtet	1N4148	diod04				RND 1N4148	Diode
								BAT46	alternativ Schottky-Diode BAT46
R17	1	FUSE PTC RM5	PTC/100mA	THT				PFRA 010	Resettable Fuse
JP3, JP5, JP6, JP7	4	JP1E		Octa-Pads				MPE 087-1-002	Pin Header
Jumper	3	Jumper						MPE 149-1-002-F0	Jumper
D1	1	LED3MM	LED3MM	3mm				LED EL 3-3200GR	LED3 mm, green, round, 3200mcd
D2	1	LED3MM	LED3MM	3mm				LED EL 3-3200GR	LED3 mm, green, round, 3200mcd
D3	1	LED3MM	LED3MM	3mm				LED EL 3-2000RT	optional LED3 mm, red, round, 2000mcd
IC2	1	LM317X	LM317L	TO92				LM 317 TO 92	VOLTAGE REGULATOR
IC3	1	LM393N	LM393N	DIL				LM 393 DIP	COMPARATOR
ANALOG-1	1	PINHD-1X6		1X06				MPE 087-1-006	alternative Stackable Pin Header (Set)
DIGITAL-L, POWER	2	PINHD-1X8		1X08				MPE 087-1-008	PIN HEADER
DIGITAL-H	1	PINHD-1X10		1X10				MPE 087-1-010	PIN HEADER
R18, R19	2	R-EU_0204/7	12R	0204/7				METALL 12,0	RESISTOR
R22	1	R-EU_0204/7	82R	0204/7				METALL 82,0	RESISTOR
R15	1	R-EU_0204/7	560R	0204/7				METALL 560	RESISTOR
R10	1	R-EU_0204/7	680R	0204/7				METALL 680	RESISTOR
R11	3	R-EU_0204/7	2k2	0204/7				METALL 15,0K	for D1, value changed compared to schematic
R12	3	R-EU_0204/7	2k2	0204/7				METALL 2,20K	for D2, RESISTOR
R21	3	R-EU_0204/7	2k2	0204/7				METALL 2,20K	optional for D3, RESISTOR
R16	1	R-EU_0204/7	3k3	0204/7				METALL 3,30K	RESISTOR
R7, R14	2	R-EU_0204/7	4K7	0204/7				METALL 4,70K	RESISTOR
R4, R9	2	R-EU_0204/7	10K	0204/7				METALL 10,0K	RESISTOR
R3	1	R-EU_0204/7	22K	0204/7				METALL 22,0K	RESISTOR
R5	1	R-EU_0204/7	47K	0204/7				METALL 47,0K	RESISTOR
R6	1	R-EU_0204/7	150K	0204/7				METALL 150K	RESISTOR
R2	1	R-EU_0204/7	220K	0204/7				METALL 220K	RESISTOR
								Warenkorb	Shopping Basket