

Qty	Value	Device	Package	Parts	Description
1		233-102	233-102	X104	WAGO Cage Clamp
1		233-104	233-104	X103	WAGO Cage Clamp
3		250-202	P-250-202	X101, X102, X108	Wago Serie 250
8	100n	C-EUC0805	C0805	C106, C107, C108, C109, C110, C111, C112, C113	CAPACITOR, European symbol
1	15mF/63	CAP-14X40	CAP-14X40	C103	
2	1k	R-EU_R0805	R0805	R101, R105	RESISTOR, European symbol
1	22k	R-EU_R0805	R0805	R102	RESISTOR, European symbol
1	330R	R-EU_R0805	R0805	R103	RESISTOR, European symbol
3	470µ/25	CPOL-EUE3.5-8	E3,5-8	C102, C104, C105	POLARIZED CAPACITOR, European symbol
1	470µ/63	CPOL-EUE7.5-16	E7,5-16	C101	POLARIZED CAPACITOR, European symbol
1	820R	R-EU_R0805	R0805	R104	RESISTOR, European symbol
2	DF04S	DF04S	DFS	B101, B103	Surface Mount Glass Passivated Bridge Rectifiers
1	INRU	22-23-2021	22-23-2021	X105	.100" (2.54mm) Center Header - 2 Pin
1	KBU8G	KBU	KBU	B102	DIOTEC RECTIFIER
1	L7809	78XXS	78XXS	IC103	VOLTAGE REGULATOR
1	L7909	79XXS	79XXS	IC104	VOLTAGE REGULATOR
2	LM317	LM317TS	317TS	IC101, IC102	VOLTAGE REGULATOR
1	PWR-CTRL	22-23-2031	22-23-2031	X106	.100" (2.54mm) Center Header - 3 Pin
1	PWR-REG	22-23-2031	22-23-2031	X107	.100" (2.54mm) Center Header - 3 Pin
1	S1D	S1D	DO214AC	D101	Gleichrichterdiode 1A 50..1000V (*A..*M)

Einschaltstrombegrenzung					
Qty	Value	Device	Package	Parts	Description
1	120R/2W	R-EU_0411/3V	0411V	R201	RESISTOR, European symbol
1	12V	ZENER-DIODEDO34-7	DO34Z7	D202	Z-Diode
1	220R	B57234	B57234*	NTC201	EPCOS B57237* Serie NTC
1	220µ/35	CPOL-EUE3.5-8	E3,5-8	C201	POLARIZED CAPACITOR, European symbol
1	8m2/16	CPOL-EUE7.5-18	E7,5-18	C202	POLARIZED CAPACITOR, European symbol
1	FTR-H1CD	G2R	G2R	K201	RELAY
1	IN	250-202	P-250-202	X201	Wago Serie 250
1	INRU	22-23-2021	22-23-2021	X202	.100" (2.54mm) Center Header - 2 Pin
1	OUT	250-202	P-250-202	X203	Wago Serie 250
1	S1D	S1D	DO214AC	D201	Gleichrichterdiode 1A 50..1000V (*A..*M)
1	T1A	SHK20L	SHK20L	F201	FUSE HOLDER 5 x 20 mm, SH contact, SHH1 Schukat, E1073 Buerklin

Lab-PSU-2

Qty	Value	Device	Package	Parts	Description
1		SK129	SK129-HOLE	KK301	HEATSINK manufacturer Fischer/distributor Buerklin
1	0R1	R-EU_R2512	R2512	R322	RESISTOR, European symbol
1	1000µ	CPOL-EUE7.5-16	E7.5-16	C301	POLARIZED CAPACITOR, European symbol
1	100R	R-EU_0204/7	0204/7	R320	RESISTOR, European symbol
2	100n	C-EU050-024X044	C050-024X044	C315, C316	CAPACITOR, European symbol
5	100n	C-EUC0805	C0805	C303, C304, C311, C312, C320	CAPACITOR, European symbol
1	100p	C-EUC0805	C0805	C313	CAPACITOR, European symbol
1	100µ (DNP)	TLC/5A-101	TLC/5A-101	L302	Ringkernndrosseln Fastron TLC/5.0A-Serie. Toleranz: 20%
2	10k	R-EU_0204/7	0204/7	R313, R321	RESISTOR, European symbol
4	10k	R-EU_R0805	R0805	R302, R309, R319, R330	RESISTOR, European symbol
1	10µ	TLC/5A-100	TLC/5A-100	L303	Ringkernndrosseln Fastron TLC/5.0A-Serie. Toleranz: 20%
1	10µ/35	CPOL-EUD/7343-31R	D/7343-31R	C317	POLARIZED CAPACITOR, European symbol
1	120R	R-EU_0207/5V	0207/5V	R329	RESISTOR, European symbol
2	12k	R-EU_R0805	R0805	R305, R311	RESISTOR, European symbol
2	180µ/63	CPOL-EUE5-13	E5-13	C305, C308	POLARIZED CAPACITOR, European symbol
2	1N4148	1N4148DO35-7	DO35-7	D303, D307	DIODE
1	1N4148	TS4148-0805	D-0805	D306	Kleinsignaldiode 400mW 100V 150mA
4	1k	R-EU_R0805	R0805	R308, R312, R323, R325	RESISTOR, European symbol
1	1k	TRIM_EU-S64Y	S64Y	R327	POTENTIOMETER
1	1n	C-EUC0805	C0805	C310	CAPACITOR, European symbol
1	1n5	C-EUC0805	C0805	C306	CAPACITOR, European symbol
1	220p	C-EUC0805	C0805	C314	CAPACITOR, European symbol
1	22k	R-EU_R0805	R0805	R328	RESISTOR, European symbol
1	22µ	CPOL-EUE2.5-6	E2.5-6	C318	POLARIZED CAPACITOR, European symbol
1	27k	R-EU_R0805	R0805	R317	RESISTOR, European symbol
4	2µ2/100	C-EUC1210	C1210	C302, C307, C309, C319	CAPACITOR, European symbol
1	39R	R-EU_R0805	R0805	R303	RESISTOR, European symbol
1	39k	R-EU_R0805	R0805	R304	RESISTOR, European symbol
1	3k3	R-EU_0207/15	0207/15	R306	Resistor 0207
2	3k3	R-EU_R0805	R0805	R301, R316	RESISTOR, European symbol
1	3k9	R-EU_R0805	R0805	R324	RESISTOR, European symbol
1	470R	R-EU_R1206	R1206	R315	RESISTOR, European symbol
1	47µ	TLC/5A-470	TLC/5A-470	L301	Ringkernndrosseln Fastron TLC/5.0A-Serie. Toleranz: 20%
1	4k7	R-EU_0204/7	0204/7	R318	RESISTOR, European symbol
1	4k7	R-EU_0207/15	0207/15	R310	Resistor 0207
1	4k7	R-EU_R0805	R0805	R307	RESISTOR, European symbol
1	5k	TRIM_EU-S64Y	S64Y	R326	POTENTIOMETER
1	6k8	R-EU_R0805	R0805	R314	RESISTOR, European symbol
3	BC847	BC847	SOT23	T301, T304, T308	NPN TRANSISTOR
3	BC857	BC857A-PNP-SOT23-BEC	SOT23-BEC	T303, T305, T307	PNP Transistor
1	CC	22-23-2021	22-23-2021	X303	.100" (2.54mm) Center Header - 2 Pin
1	FB	22-23-2031	22-23-2031	X305	.100" (2.54mm) Center Header - 3 Pin
1	I-POT (1k)	22-23-2031	22-23-2031	X308	.100" (2.54mm) Center Header - 3 Pin
1	IN	250-202	P-250-202	X301	Wago Serie 250
1	IRF5210	IRF5210	TO220AV	T302	
2	LF356	OP07CQ	DIL08	IC302, IC303	OP AMP
1	OUT	250-202	P-250-202	X309	Wago Serie 250
1	PWR	22-23-2031	22-23-2031	X302	.100" (2.54mm) Center Header - 3 Pin
1	REF	22-23-2021	22-23-2021	X304	.100" (2.54mm) Center Header - 2 Pin
1	S1D	S1D	DO214AC	D304	Gleichrichterdiode 1A 50..1000V (*A..*M)
2	SK56C	B360	SMC	D301, D305	Schottky 20..60V 3A SMD(SMC)
1	Sense	22-23-2031	22-23-2031	X306	.100" (2.54mm) Center Header - 3 Pin
1	TIP132	TIP132V	TO220AV	T306	NPN Darlington Leistungstransistoren
1	TL494CN	TL494CN	DIL16	IC301	SWITCHMODE Pulse Width Modulation Control Circuit
1	U-POT (10k)	22-23-2031	22-23-2031	X307	.100" (2.54mm) Center Header - 3 Pin
1	ZD3V3	ZENER-DIODESOT23	SOT23	D302	Z-Diode

Lab_PSU-CONTROL-2

Qty	Value	Device	Package	Parts	Description
12	100n	C-EUC0805	C0805	C402, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415	CAPACITOR, European symbol
1	10k	R-EU_R0805	R0805	R404	RESISTOR, European symbol
1	10µ/35	CPOL-EUD/7343-31W	D/7343-31W	C401	POLARIZED CAPACITOR, European symbol
4	12k	R-EU_R0805	R0805	R406, R408, R410, R411	RESISTOR, European symbol
4	1k	R-EU_R0805	R0805	R402, R403, R409, R412	RESISTOR, European symbol
1	330R	R-EU_R0805	R0805	R401	RESISTOR, European symbol
1	39R	R-EU_R0805	R0805	R405	RESISTOR, European symbol
1	3k3	R-EU_R0805	R0805	R407	RESISTOR, European symbol
2	47µ	CPOL-EUE2.5-6	E2,5-6	C403, C404	POLARIZED CAPACITOR, European symbol
1	FB	22-23-2031	22-23-2031	X404	.100" (2.54mm) Center Header - 3 Pin
1	ISP	ML6	ML6	SV401	HARTING
1	L7805	78XXS	78XXS	IC402	VOLTAGE REGULATOR
1	LCD	22-23-2101	22-23-2101	X403	.100" (2.54mm) Center Header - 10 Pin
2	OP07	OP07CQ	DIL08	IC404, IC405	OP AMP
1	PWR	22-23-2031	22-23-2031	X402	.100" (2.54mm) Center Header - 3 Pin
1	REF	22-23-2021	22-23-2021	X401	.100" (2.54mm) Center Header - 2 Pin
1	TINY26LP	TINY26LP	DIL20	IC403	8-bit AVR Microcontroller with 2K Bytes Flash
1	TS431B	TS431CX	SOT23	IC401	Taiwan Semiconductor TS431