

Designator	Description	Comment	Footprint	value	tolerance	Qty
C1	Capacitor	Cap 2.2nF	1005[0402]	2.2nF, 50V	10%, X7R	1
C2	Capacitor	Cap 4.7pF	1005[0402]	4.7pF, 50V	0.25pF, 5%, NPO	1
C3	Capacitor	Cap 1.5pF	1005[0402]	1.5pF, 50V	0.1pF, NPO	1
C4	Capacitor	Cap 1pF	1005[0402]	1pF, 50V	0.1pF, NPO	1
C5	Capacitor	Cap 33nF	1005[0402]	33nF, 50V	10%, X7R	1
C6, C7	Capacitor	Cap 22pF	1005[0402]	22pF, 50V	2%, NPO	2
C8, C10, C11, C20, C21, C22, C24, C25, C26, C27, C28	Capacitor	Cap 100nF	1005[0402]	100nF, 25V	10%, X7R	13
C9	Capacitor	Cap 1uF	1005[0402]	1uF, 6V3		1
C12	Capacitor	Cap 220nF	2012[0805]	220nF, 50V	10,00%	1
C13, C14	Capacitor	Cap 10pF	1005[0402]	10pF, 50V	5,00%	2
C15	Capacitor	Cap 10nF	1005[0402]	10nF, 25V	5%, X7R	1
C16	Capacitor	Cap 1nF	1005[0402]	1nF, 50V	5%, X7R	1
C17	Capacitor	Cap 33pF	1006[0402]	33pF, 50V	5,00%	1
C18, C19	Capacitor	Cap 15pF	1006[0402]	15pF, 50V	5,00%	2
C23	Capacitor	Cap 10uF	C1206	10uF, 6V3	10%, X7R	1
C29	Ceramic Disc Capacitor, Safety Class Y1/X1		Axial 10mm	2.2nF, 250VAC	20,00%	1
C30	Polarized Capacitor (Tantal)	Tantal	TANTAL_B (3528-21 EIA)	47uF, 10V	10,00%	1
C31	Polarized Capacitor (Filter)	Filter Cap	CAP_radial-5mm	4.7uF, 400V	20,00%	1
D1		Bridge Rectifier	SOIC-4	500mA, 600V		1
D2	High Speed Switching Diode, MCC	1N4148	SOD123_MCC	100V, 150mA, 200mW		1
D3	LED side-looking	green	LED_0805	20mA		1
D5	Transient Voltage Suppressor	Schottky	SOT23-3 (D)	30V, 500mA		1
F1	0234003.MXP (Littelfuse Inc)	Fuse Thermal		3A, 250V, Dim. 5x20mm		1
L1	Inductor	Inductor	0402_ANT	8.2nH	5,00%	1
L2	Inductor	Inductor	1005[0402]	3.9nH	5,00%	1
L3	Inductor	Inductor	0402_ANT	2.7nH	5,00%	1
L4	Ferrite Bead	Ferrite Bead	2012[0805]	100MHz, 1A, 39Ohm		1
L5	Inductor	220uH, 2.4A	COIL-HF_vertical	220uH, 2.4A		1
P1	IEC Mains Power Outlet, EN60 320-2-2 F Class I, PC Flange Rear Mount, Chassis Socket	Plug AC Female / C13 / Schurter Typ 5001	Power_Outlet			1
P2	IEC Mains Power Inlet, EN60 320-1 C14 Class I Cold Condition, PC Flange Rear Mount, Chassis Plug	Plug AC Male / C14 / Schurter Typ GSP1	Power_Inlet			1
P3		FUSE HOLDER	Fuse Holder			1
P4	CONREVSMA Antenna Connector	CONREVSMA, pcb edge	CONREVSMA003.06 2			1
P5	Stiftleiste 1x6 Pins, RM 2,54mm	(Funktion: RS232_CMOS)	HDR1X6_2.54mm			1
P6	USB 1.1/USB 2.0, Right Angle, SMT, B Type MINI, Receptacle, 5 Position	USB-B-MINI	USB-B-MINI			1
P7, P9	Tactile Switch rectangle	MJTP1236A	MJTP1236A			2
P8	HDR1x2	Jumper	HDR1x2, RM2.54mm			1
Q1, Q2, Q3, Q5, Q6	NPN General-purpose Transistor	BC847	SOT23-3 (T)	45V, 100mA		5
Q4	Triac T435-600B (STM)	Triac	DPAK	4A, 600V		1
R1	Resistor	Res 22K	1005[0402]	22K, 1%	1,00%	1
R2, R30	Resistor	Res 1M	1005[0402]	1M	5,00%	2
R3	Resistor	Res 1K8	2512 (6432)	1K8, 500V, 1W	5,00%	1
R4	Resistor	Res 330R	1005[0402]	330R	5,00%	1
R5, R6	Resistor	Res 330K	2512 (6432)	330K, 250V, 1W	5,00%	2
R7	Resistor	Res 120K	2512 (6432)	120K, 250V, 1W	5,00%	1
R8	Resistor	Res 100K	2512 (6432)	100K, 250V, 1W	5,00%	1
R9	Resistor	Res 10K	1005[0402]	10K	1,00%	1
R10	Resistor	Res 100K	1005[0402]	100K	1,00%	1
R11	Resistor	Res 270R	1005[0402]	270R	5,00%	1
R14, R19, R22	Resistor	Res 1K5	1005[0402]	1K5	5,00%	3
R15	Resistor	Res 150	1005[0402]	150R	5,00%	1
R12, R13, R17, R27	Resistor	Res 4K7	1005[0402]	4K7	5,00%	5
R18	Resistor	Res 47K	1005[0402]	47K		1
R20, R21	Resistor	Res 27R	1005[0402]	27R		2

R23, R24, R25, R28, R31, R32	Resistor	Res 1K2	1005[0402]	1K2	5,00%	6
R29	Resistor	Res 220K	1005[0402]	220K	5,00%	1
R33	Resistor	Res 2K2	1005[0402]	2K2	5,00%	1
U1	AC/DC_VSK-S3-3R3U	AC/DC Converter	ACDC_VSK-S3	3V3, 700mA, 2.3W		1
U2	AT91 ARM 32-bit Microcontroller	AT91SAM7S64	LQFP64			1
U3	NRF24L01, Single Chip 2.4GHz Radio Transceiver	NRF24L01	QFN20			1
U4	S2S5 Sharp, Photocoupler Triac, Non-Zero cross type	S2S5	TO_11-4C3_sharp	600V, 50mA		1
U5	Photocoupler LTV-356T (LITE-ON)	Photocoupler	LTV-356T			1
U6	LMV331, Comperator (single, low-voltage)	LMV331	SC70-5	2V7-5V5, 60uA		1
U7	LMV321, Operational Amplifier	LMV321	SC70-5			1
X1	Crystal Oscillator	HCM49 SMD	49USMXL	18.432 MHz, 18pF		1
X2	49USMXL_16MHz_30/50/1060/12pF SMD Crystal	49USMX	49USMXL	16MHz, 12pF		1