

Comment	Description	Designator	Footprint	Label	Quantity
Antenna	Antenna	ANT1	SMA	ANT SMA	1
130uF-35v	CAP ALUM 220UF 20% 35V SMD	C1, C3, C8	CAP_EEFP1V221AV	EEFP1V221AV	3
100uF	TOTAL CAPACITOR SMD PACK	C2, C12, C14, C23, C34	CAP0805	CAP SMD PACKAGE	5
100uF-35v	CAP ALUM 220UF 20% 35V SMD	C4, C38	CAP_EEFP1V221AV	EEFP1V221AV	2
1uF	TOTAL CAPACITOR SMD PACK	C5, C17, C18, C21, C24, C25, C31, C32, C39	CAP0805	CAP SMD PACKAGE	9
10pF	TOTAL CAPACITOR SMD PACK	C6	CAP0805	CAP SMD PACKAGE	1
13pF	TOTAL CAPACITOR SMD PACK	C7	CAP0805	CAP SMD PACKAGE	1
470uF	TC 47uF-25V 10% Case D	C9	CAPPMT343X310N	TAUD47M025SRN0	1
22uF	TOTAL CAPACITOR SMD PACK	C10	CAP0805	CAP SMD PACKAGE	1
10uF	TOTAL CAPACITOR SMD PACK	C11	CAP0805	CAP SMD PACKAGE	1
10uF-25v	CAP ALUM 220UF 20% 25V SMD	C13	CAP_EEFP1NH220UR	EEFP1NH220UR	1
100uF	CAP Ceramic Total	C15	CAP Ceramic 5mm	CAP CERAMIC TOTAL SIZE	1
100uF-50v	CAP ALUM 100UF 20% 50V SMD	C16	CAP_EEFP1NH101L	EEFP1NH101L	1
220pF	CAP Ceramic Total	C19, C20	CAP Ceramic 5mm	CAP CERAMIC TOTAL SIZE	2
220uF-35v	CAP ALUM 220UF 20% 35V SMD	C22, C35	CAP_EEFP1V221AV	EEFP1V221AV	2
22uF-50v	CAP ALUM 220UF 20% 50V SMD	C25, C26, C27, C36, C37	CAP_EEFP1NH220UR	EEFP1NH220UR	5
4.7uF	TOTAL CAPACITOR SMD PACK	C28, C30, C33	CAP0805	CAP SMD PACKAGE	3
1N5822	Schottky Rectifiers	D1, D3, D8	DO-214AB(SMC)	1N5822 SMD	3
LED 5MM	Light Emitting Diode	D2	LED5MM_GBW	LED 5MM	1
SM4007	Diode SMD Package	D4, D5, D6, D7	DO301 SMD	Diode SMD Package	6
SR560	General Semiconductor Revision 3A 1000V Silicon Rectifier	DP1, DP2	DO-201AD - vertical	1N5408 3A 1000V	2
6A10	General Semiconductor Revision 3A 1000V Silicon Rectifier	DP3, DP4, DP5	DO-201AD - vertical	1N5408 3A 1000V	3
3.3	DIODE ZENER GENERAL	D21, D23, D24, D26, D27, D28	SD080, LL-34	ZENER GENERAL DIODE	6
5.5	DIODE ZENER GENERAL	D22	SD080, LL-34	ZENER GENERAL DIODE	1
5.5	DIODE ZENER GENERAL	D25	SD080, LL-34	ZENER GENERAL DIODE	1
F=1.0 A	Fuses 5x20	F1, F2, F3, F4	Fuse 5x20 With holder pins	Fuse 5x20 with holder pins	4
ESP8266 ESP-12 F	ESP8266 ESP-12 E	K1	ESP8266-12E	ESP8266 ESP-12 E	1
Relay	Relay, SPDT POWER NEEDLE	K3, K2	Relay 15.40x12.10x13.10	RELAY General	2
100uH or 47uH	47uH Shielded Inductor 3.25A FilmChm Max Nonstandard	L1	IND_CDRH127/LDNP-470uH_SUM	CDRH127/LDNP-470uH	1
47uH or 33uH	47uH Shielded Inductor 3.25A FilmChm Max Nonstandard	L2	IND_CDRH127/LDNP-470uH_SUM	CDRH127/LDNP-470uH	1
33uH or 47uH	47uH Shielded Inductor 3.25A FilmChm Max Nonstandard	L3	IND_CDRH127/LDNP-470uH_SUM	CDRH127/LDNP-470uH	1
M08-1Y03	Female Header 302	H1, H2	M08R1M03-254P	M08R-1Y03	2
M08R-1Y05	Male Header 1Y05	H3	M08R1Y05-254P	M08R-1Y05	1
D022	Male Header 1Y04	H4	M08R1Y04-254P	M08R-1Y04	1
BC847C	NPN General purpose Transistor	O1, O2, O5, O10	SO723_N	BC847C	4
BC547	NPN General purpose Transistor	O3, O4	TO-92 BENT	BC547	2
TP42C	PNP power transistor	O6, O7	TO-220 AB	TP42C	2
TP41C	NPN power transistor	O8, O9	TO-220 AB	TP41C	2
2.2K	TOTAL SMD RESISTOR PACK	R1	RES0805	RES SMD PACKAGE	1
1K	TOTAL SMD RESISTOR PACK	R2, R7, R8, R9, R15, R22, R43, R44, R45, R49	RES0805	RES SMD PACKAGE	10
1K	TOTAL SMD RESISTOR PACK	R3, R32	RES0805_(D012X06)	RES SMD PACKAGE	2
4.7K	TOTAL SMD RESISTOR PACK	R4, R38, R39, R45, R55	RES0805	RES SMD PACKAGE	5
330	TOTAL SMD RESISTOR PACK	R5	RES0805	RES SMD PACKAGE	1
10K	TOTAL SMD RESISTOR PACK	R6, R11, R12, R13, R14, R18, R19, R27, R30, R31	RES0805	RES SMD PACKAGE	10
5.6K	TOTAL SMD RESISTOR PACK	R10	RES0805	RES SMD PACKAGE	1
2.2M	TOTAL SMD RESISTOR PACK	R16, R17, R20	RES0805	RES SMD PACKAGE	3
1M	TOTAL SMD RESISTOR PACK	R21, R23	RES0805	RES SMD PACKAGE	2
4.7K	TOTAL SMD RESISTOR PACK	R24, R34, R46, R51	RES1206	RES SMD PACKAGE	4
2.2K	TOTAL SMD RESISTOR PACK	R25, R35, R47, R52	RES1206	RES SMD PACKAGE	4
1.2K	TOTAL SMD RESISTOR PACK	R26	RES0805_(D012X06)	RES SMD PACKAGE	1
4.7K	TOTAL SMD RESISTOR PACK	R28, R37, R50, R53	RES0805	RES SMD PACKAGE	4
2.7M	TOTAL SMD RESISTOR PACK	R29	RES0805	RES SMD PACKAGE	1
15	RES Axiel 0.5W	R33, R36	Axiel 0.5W 5_0mm	RES Axiel 0.5W	2
6K	TOTAL SMD RESISTOR PACK	R40, R54	RES0805	RES SMD PACKAGE	2
100	RES Axiel 0.5W	R41, R42	Axiel 0.5W 5_0mm	RES Axiel 0.5W	2
Switch PB	Push Button Switch	S1	Switch - Push to On	SW01PB	1
Buzzer 1.2V	PIZO Buzzer Active	SP1	Buzzer 1.2v 16mm DC	PIZO BUZZER	1
LM2596S-ADJ/NOPB	SIMPLE SWITCHER Reg 4.5V to 40V, 3A Low Component Count Step-Down Regulator IS DOPAK/TO-263 .40 to .125	U1	VREG_LM2596S-ADJ/NOPB	LM2596S-ADJ/NOPB	1
SR000L		U2	SR000L	SR000L	1
CD4011BE		U3	DWP794W45P254L196 9H50HC14	CD4011BE	1
LM317MDTG	Linear Voltage Regulator IC, Positive Adjustable 1 Output 500mA LPK	U4	VREG_LM317MDTG	LM317MDTG	1
AMS1117-3V3	1 x 1 Volt, 800mA Low Dropout Linear Regulator, 4-pin SOT-223	U5	SO7223	AMS1117-a.x	1
XL6009	The XL6009 regulator is a wide input range, current mode, DC/DC converter which is capable of generating either positive or negative output voltages.	VR1	OPAK170P1435X465-AN	XL6009	1
LM2596S-5.0		VR2	TOT10P1524X483-4N	LM2596S-5.0	1
CON_Phoenix_MSTBA-02		X1	CON_MSTBA02	CON_Phoenix_MSTBA-02	1
CON_Phoenix_MSTBA-08		X2, X3	CON_MSTBA08	CON_Phoenix_MSTBA-08	2