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1		1		C1	CAP CER 47PF 50V NP0 0402	C0402	0402	CL05C470FB5NNNC
2		2		C2, C3	CAP CER 18PF 50V NP0 0402	C0402	18pF	CL05C180GB5NCNC
3		20		C4, C7, C10, C11, C12,	CAP CER 0.1UF 10V X7R 0402	C0402	0.1uF	CL05B104JP5NNNC
				C13, C14, C18, C19, C20,				
				C21, C22, C23, C24, C25,				
				C26, C27, C28, C29, C30				
4		2		C5, C6	CAP CER 9PF 50V NP0 0402	C0402	9pF	CL05C090CB5NNNC
5		2		C8, C9	CAP CER 2.2UF 6.3V X5R 0402	C0402	2.2uF	CL05A225KQ5NSNC
6		3		C15, C16, C17	CAP CER 1UF 25V X5R 0402, CAP CER 1UF 25V X5R 0402, CAP CER 10UF 6.3V X5R 0603	C0603	0603	CL05A105KA5NQNC,
								CL05A105KA5NQNC,
								CL10A106KQ8NNNC
7		1		C31	CAP CER 10000PF 10V U2J 0603	C0603	0.01uF	GRM1857U1A103JA44D
8		1		C32	CAP CER 4.7UF 6.3V X5R 0402	C0402	4.7uF	CL05A475KQ5NRNC
9		1		D1	DIODE SCHOTTKY 23V 1A SOD323	BAT20JFILM -	BAT20JFILM	BAT20JFILM
						DIOM1712X11N		
10		1		D2	LED GREEN CLEAR 0603 SMD	LED0603_GREEN	LED Green	LTST-C191KGKT
11		1		D3	LED ORANGE CLEAR 0603 SMD	LED0603_ORANGE	LED Orange	LTST-C191KFKT
12		2		D4, D5	DIODE ARRAY GP 100V 250MA 6TSSOP	BAV70S	BAV70S,115	BAV70S
13		10		DA1, DA2, DA3, DA4, DA5,	TVS DIODE 3.3VWM 26VC SOT23	SOT95P230X110-3N	PESD3V3L2BT,215	PESD3V3L2BT,215
				DA6, DA7, DA8, DA9, DA10				
14		1		DA11	TVS DIODE 5VWM SOT23-6	ESDA6V1BC6	ESDA6V1BC6	ESDA6V1BC6
15		1		FB1	FERRITE BEAD 600 OHM 0402 1LN	BLM15HG601SN1D	BLM15HG601SN1D	BLM15HG601SN1D
16		1		FB2	FERRITE BEAD 30 OHM 0603 1LN	MI0603K300R-10	MI0603K300R-10	MI0603K300R-10
17		1		IC1	ESP8266 ESP-02	ESP8266 ESP-02	ESP8266 ESP-02	ESP8266 ESP-02
18		1		J1	Micro USB Jack B	DX4R005J91R5100	DX4R005J91R5100	DX4R005J91R5100
19		1		J2	20021121-00010C4LF ARM COrtex JTAG	FTSH-105-XX-X-DV	20021121-00010C4LF	20021121-00010C4LF
20		1		J3	CONN HEADER PH SIDE 2POS 2MM	S2B-PH-K-S(LF)(SN)	S2B-PH-K-S(LF)(SN)	S2B-PH-K-S(LF)(SN)
21		1		J4	CONN HEADER PH SIDE 2POS 2MM	S3B-PH-K-S(LF)(SN)	S3B-PH-K-S(LF)(SN)	S3B-PH-K-S(LF)(SN)
22		8		J5, J6, J7, J8, J9, J10, J11,	CONN HEADER PH TOP 4POS 2MM	B4B-PH-K-S(LF)(SN)	B4B-PH-K-S LF SN	B4B-PH-K-S LF SN
				J12		, ,,		
23		4		J13, J14, J15, J16	CONN HEADER PH TOP 3POS 2MM	B3B-PH-K-S(LF)(SN)	B3B-PH-K-S(LF)(SN)	B3B-PH-K-S(LF)(SN)
24		1		P1	Header, 3-Pin, Dual row	HDR2X3	Header 3X2	Header 3X2
25		1		P2	Header, 2-Pin	HDR1X2	Header 2	Header 2
26		1		P3	Header, 3-Pin	HDR1X3	Header 3	Header 3
27		1		O1	MOSFET P-CH 30V 2.5A SOT-23	DMG2307L-7 -	DMG2307L-7	DMG2307L-7
				T		SOT92P240X102-3N		
28		1		R1	RES SMD 1M OHM 1% 1/16W 0402	R0402	1M	RC1005F105CS
29		8		R2, R3, R4, R5, R19, R20,	RES SMD 1K OHM 1% 1/16W 0402	R0402	1k	RC1005F102CS
				R21, R22				
30		2		R6, R26	RES SMD 10K OHM 1% 1/16W 0402	R0402	10K	RC1005F103CS
31		2		R7, R8	RES SMD 2K OHM 1% 1/8W 0805	R0805	ERJ-6ENF2001V	ERJ-6ENF2001V
32		1		R9	Standin 0402	R0402	100K	Standin 0402
33		1		R10	RES SMD 487 OHM 1% 1/16W 0402	R0402	RC1005F4870CS	RC1005F4870CS
34		10		R11, R12, R13, R14, R15,	4.7k Ohm ±1% 0.063W, 1/16W Surface Mount Resistor Thick Film ±100ppm/°C 0402 (1005 Metric)	R0402	4k7	RC1005F472CS
1 **				R16, R17, R18, R27, R28				
35		2		R23, R24	RES SMD 22 OHM 0.1% 1/16W 0402	R0402	22r	1879208-9
36		1		R25	RES SMD 47K OHM 1% 1/16W 0402	R0402	47K	RC1005F473CS
37		4		R29, R30, R31, R32	RES SMD 200 OHM 1% 1/16W 0402	R0402	200 ohm	RC1005F201CS
38		4		RN1, RN2, RN3, RN4	RES ARRAY 4 RES 200 OHM 0804	EXB-N8V201JX - CAC-	200 ohm	EXB-N8V201JX
300				1411, 1442, 1410, 1411	The State of the S	50P200X100-8N	250 01111	EAD HOVED IOA
39		2		SW1, SW2	SWITCH TACTILE SPST-NO 0.05A 12V	B3U-1000P	B3U-1000P	B3U-1000P
40		2		TP1, TP2	Socket	Alligator-TP	Test-Point	Test Point, Alligator-Style
41		11		TP3, TP4, TP5, TP6, TP7,	Socket	TP-2	Test-Point	Test Point, Surface-Style
71				TP8, TP9, TP10, TP11,	COCKE	11 -2	Test-1 onit	rest i dirit, duriace-diyie
				TP12, TP13				
42		1		111		STM32F446RET6 -	STM32F446RET6 - TQFP64	STM32F446RET6
72				01		TSQFP50P1200X1200X160-	011VD21 4401/E10 - 1Q11 04	O TWOZI 440KE TO
						64N		
43		1		112	IC DATE CHARCED I LION 40M CON (V/DLIC and Color V/oheir Coll)		DOMANDOCT	DOMMADDOCT
43		'		02	IC BATT CHARGER LI-ION 10WSON (VBUS and Solar Voltaic Cell)	bq24210 -	BQ24210DQCT	BQ24210DQCT
				110	IO DECLIDO O OLA COTTO	QFN50P300X200X80-10N	17/1/70D 0 0TD01	174470D 0 07D04
44		1		U3	IC REG LDO 3.3V 0.8A SOT89	AZ1117CR-3.3TRG1 - SOT89	AZ1117CR-3.31RG1	AZ1117CR-3.3TRG1
l l		.		L		150P410X160-3N		
45	1	1		U4	IC EXPANDABLE 5CH I2C HUB 20SOIC	PCA9518DWR	PCA9518DWR	PCA9518DWR
46	-	1		U5	Dual 4-channel analog multiplexer/demultiplexer	74HC4052	74HC4052	74HC4052
47		1		X1	32.768kHz ±20ppm Crystal 9pF 70 kOhm -40°C ~ 85°C Surface Mount 2-SMD	ABS07-32.768KHZ-9-T	ABS07-32.768KHZ-9-T	ABS07-32.768KHZ-9-T
48		1		X2	8MHz ±20ppm Crystal 18pF 200 Ohm 20° C ~ 70°C Surface Mount 4SMD, No Lead (DFN, LCC)	ABM3B8.000MHZB2T	8MHZ	ABM3B8.000MHZB2T
							1	