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item#	mn Name Error:Manufac #Column Name Error:Manufacturer No	Quantity	#Column Name Error:Note	Designator	Description CAP CER 47PF 50V NP0 0402	Footprint C0402	Comment 0402	CL05C470FB5NNNC
1		1	C1	. 62				
3		20		2, C3	CAP CER 18PF 50V NP0 0402	C0402 C0402	18pF 0.1uF	CL05C180GB5NCNC
3		20		I, C7, C10, C11, C12, 3, C14, C18, C19, C20,	CAP CER 0.1UF 10V X7R 0402	C0402	U. Tur	CL05B104JP5NNNC
				1, C22, C23, C24, C25,				
		-		6, C27, C28, C29, C30	415 455 455 455 455			
4		2		i, C6	CAP CER 9PF 50V NP0 0402	C0402	9pF	CL05C090CB5NNNC
5		2		s, C9	CAP CER 2.2UF 6.3V X5R 0402	C0402	2.2uF	CL05A225KQ5NSNC
6		3	[C1	5, 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		11	C3		CAP CER 10000PF 10V U2J 0603	C0603	0.01uF	GRM1857U1A103JA44D
- 8		1	C3	12	CAP CER 4.7UF 6.3V X5R 0402	C0402	4.7uF	CL05A475KQ5NRNC
9		1	D1		DIODE SCHOTTKY 23V 1A SOD323		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		, D5	DIODE ARRAY GP 100V 250MA 6TSSOP	BAV70S	BAV70S,115	BAV70S
13		10		11, DA2, DA3, DA4, DA5,	TVS DIODE 3.3VWM 26VC SOT23	SOT95P230X110-3N	PESD3V3L2BT,215	PESD3V3L2BT,215
			DA	A6, DA7, DA8, DA9, DA10				
14		1	DA		TVS DIODE 5VWM SOT23-6	ESDA6V1BC6	ESDA6V1BC6	ESDA6V1BC6
15		1	FB		FERRITE BEAD 600 OHM 0402 1LN		BLM15HG601SN1D	BLM15HG601SN1D
16		1	FB	2	FERRITE BEAD 30 OHM 0603 1LN	MI0603K300R-10	MI0603K300R-10	MI0603K300R-10
17		1	IC <sup>2</sup>	1	ESP8266 ESP-02	ESP8266 ESP-02	ESP8266 ESP-02	ESP8266 ESP-02
18		1	J1		Micro USB Jack B		DX4R005J91R5100	Micro USB
						Only		
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	2				
23		4	J10	3, 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	Q1		MOSFET P-CH 30V 2.5A SOT-23	DMG2307L-7 -	DMG2307L-7	DMG2307L-7
						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
				1, 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	R1	0	RES SMD 487 OHM 1% 1/16W 0402	R0402	RC1005F4870CS	RC1005F4870CS
34		10	R1	1, 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
				6, R17, R18, R27, R28				
35		2		3, R24	RES SMD 22 OHM 0.1% 1/16W 0402	R0402	22r	1879208-9
36		1	R2	5	RES SMD 47K OHM 1% 1/16W 0402	R0402	47K	RC1005F473CS
37		4	R2	9, R30, R31, R32	RES SMD 200 OHM 1% 1/16W 0402	R0402	200 ohm	RC1005F201CS
38		4	RN	I1, RN2, RN3, RN4	RES ARRAY 4 RES 200 OHM 0804	EXB-N8V201JX - CAC-	200 ohm	EXB-N8V201JX
				, , , , , , , , , , , , , , , , , , ,		50P200X100-8N		
39		2	SW	V1, SW2	SWITCH TACTILE SPST-NO 0.05A 12V	B3U-1000P	B3U-1000P	B3U-1000P
40		2		1, TP2	Socket	Alligator-TP	Test-Point	Test Point, Alligator-Style
41		1	U1	·			STM32F446RET6 - TQFP64	STM32F446RET6
						TSQFP50P1200X1200X160-		
		1		l		64N		
42		1	LI2		IC BATT CHARGER LI-ION 10WSON (VBUS and Solar Voltaic Cell)	bq24210 -	BQ24210DQCT	BQ24210DQCT
		1 '	"	l		QFN50P300X200X80-10N		
43		1	US		IC REG LDO 3.3V 0.8A SOT89	AZ1117CR-3.3TRG1 - SOT89-	AZ1117CR-3.3TRG1	AZ1117CR-3.3TRG1
		1 '	"	1		150P410X160-3N		
44		1	lu lu		IC EXPANDABLE 5CH I2C HUB 20SOIC	PCA9518DWR	PCA9518DWR	PCA9518DWR
45		1	I I K		Dual 4-channel analog multiplexer/demultiplexer	74HC4052	74HC4052	74HC4052
46		1	U5		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
47		1	X2		8MHz ±20ppm Crystal 18pF 200 Ohm 20° C ~ 70°C Surface Mount 4SMD, No Lead (DFN, LCC)		8MHZ	ABM3B8.000MHZB2T
77			^2	·	on a zeoppin or, our topi zoo ominzo o - 10 o ounade mount -omio, No ceda (DFN, coo)	, LONGOO.OOONII ILDZ I		, LONDO COO ON LEDE I