

							Manufacturer Part		0.00
Designator	Description	Comment	Value	Quantity	Note Approved sub	Manufacturer 1	Number 1	Supplier 1	1
K, 12V, FAND_1, FAN1_1, PS_ON, PWR	Header, 2-Pin	Header 2			OK			Digi-Key	9
1, C2, C21, C22, C23, C24, C25, C30, C31, 32	Polarized Capacitor (Surface Mount)	Capil-6.3-100uF-35V	100uF 35V	10	Approved sub OK	Panasonic Electronic Components	EEE-FTIVIOIAP	Digi-Key	N N
1,09,012,034,07,018,09	Capacitor SMD Cor 1uF 10% 16V X7R 0603	approved sub OK	Tμ	1	Approved sub OK	TDK Corporation	C1608X7R1C105X	Digi-Key	1 N
4, CS, OA, C7, C11, C13, C14, C18, C33,	Canacity (Semiconductor SM Model)	CveC-0403-100e6	100×5	10	Approved sub	Thrases.	C COMOTHER Y 70 900 TO 4	Dinkling	
					Approved sub			, , ,	Ī
38, C14, C15, C19, C20	Capacitor (Semiconductor SIM Model)	CspC-0603-22pF	22pF		OK	AVX Corporation	06035C220IAT2A	Digi-Key	2
10	Capacitor (Semiconductor SIM Model)	CapC-0603-2.7nF	2.7eF	1	Approved sub OK	Yageo	C C0603890X7R988 104	Digi-Key	N
17	Capacitor (Semiconductor SIM Model)	CapC-1210-4.7uF-50V	4.7uF	1	Approved sub	Murata Electronics North America	GRM32ER71H475KABBL	Digi-Key	1 1 1
			1 1 1 1 1 1 m		Approved sub				SAS
01, D6, D7, D9, D10, D11, D12, D13, D14	Diode SMD 100V 1.5A SMA	100V; 1.5A	Vf = 1.15V 69 1.5A (Max)		OK SUB	Diodes Inc	528A-13-F	Digi-Key	10
					Approved sub				88.0
12, 03	Diode SMD 300mA 0.5W 50 0322	DIODE_75V_500mW	VI-1V @ SONA	,	OK	Micro Commercial Co	IN4148WX-TP	Digi-Key	1 5
24	Default Diode	Diode Schottky 2A 20V Dual Common Cathode	PMEG2020CPA, 115	1	Approved sub OK	Nexperia USA Inc.	PMEG2020CPA,115	Digi-Key	5 1 N
									0 8
05	Default Diode	Diode Schottky 2A 47V		,	Approved sub OK	Panasonic Electronic Components	D82W40200L	Digi-Key	S N
									4 4 2
00	Schottky Diode	Diode SSB44-E3	407 4A	1	Approved sub OK	Wishay Semiconductor Diodes Division	SS844-E3/52T	Digi-Key	N S
0, E1, E2, X, Y, Z		A49888SAKOUT			Approved sub OK	Sullins Connector Solutions	PPTC081LFBN-RC	Digi-Key	6 N
0,M0T, E1,M0T, E2,M0T, X,M0T, ,M0T, Z,M0T 0 M0T A E1 M0T A E2 M0T A ENC 1	Screw Terminal 3.5mm 4-Way	ScrewTerminal-3.5mm 4Way			Approved sub OK	Phoenix Contact	1751264	Digi-Key	5 %
MOT, Z MOT B MOT A ET MOT A EZ MOT A ENC. T NC. Z ENC. Z ENC. 4 X MOT A Y MOT A (MOT A	Header, 4-Pin	Header 4		10	Approved sub OK			Digi-Key	4 N
0,MS, E1,MS, E2,MS, X,MS, Y,MS, Z,MS	DIP Switch	SW DIP-3	L		Approved sub	Wurth Electronics Inc.	416131160803	Digi-Key	ľ
391, D#2	Header, 5-Pin, Dual row	Header SX2			Approved sub OK			Digi-Key	Ţ
					Approved sub				2 5
392	Header, 7-Pin, Dual row	Header 7X2		1	OK	3M	2214-6121-16	Digi-Key	t
1,12		Fuseholder - Mini ATC ATO 15A			Approved sub OK	MPD (Memory Protection Devices)	BK-6013	Digi-Key	5
3	Fuse - 15V 200mA Trip PTC SMID 0603	PTC Resettable Fuse	200mA	,	Approved sub OK	Holly Fune	06T-0160L	Digi-Key	,
AND, FANT, HED, HET, HE2	Screw Terminal 3.5mm 2-Way	Scrow Terminal 3.5mm 2- Way			Approved sub	Phoenix Contact	1751248	Digi-Key	5
	,	Screw Terminal Smm 2-			Approved sub				2
B-OUT, HB-PWR, MAIN-PWR	Screw Terminal Smm 2-Way	Way		,	Approved sub	Phoenix Contact	1935776	Digi-Key	1
SP1, ISP2	Header, 3-Pin, Dual row	Header 312		-	OK			Digi-Key	Ť
2		Micro-USB II Socket		1	Approved sub OK Approved sub	Molex, LLC	1050170001	Digi-Key	5
IAG, Thermistors	Header, 5-Pin, Dual row	Header 5X2			OK IUD			Digi-Key	- 6
1	MagneticCore Inductor with Winding Polarity Marking	Ferrite Beard SMD 0805	WE-CBF_0005 (WE-CBF)		Approved sub OK	Murata Electronics North America	BLM21PG221SN1D	Digi-Key	1
									6 11
3	MagneticCore Inductor with Winding Polarity Marking	Inductor SMD 33uH 2.5A	33uH	1	Approved sub OK	Bourns Inc.	SRN604STA-330M	Digi-Key	5
									5 4
4	MagneticCore Inductor with Winding Polarity Marking	Inductor SMD 47uH 2.2A	47uH	1	Approved sub OK	Bourns Inc.	SRN8040TA-470M	Digi-Key	5 5
D1, LD2, LD3, LD4, LD5, LD6, LD7, LD8, D9, LD10	Hyper-Bright LED	GREEN		10	Approved sub OK	Lite-On Inc.	LTST-C190KGKT	Digi-Key	2 N
ED1, RX, TX	Hyper-Bright LED	WILLOW			Approved sub	Lite-On Inc.	LTST-C190KSKT	Digi-Key	1
									;
21, Q2, Q3, Q4, Q5		BUK9/21-40E				Nexperia USA Inc.	BUK9/21-406,115	Digi-Key	N
									1 1
26		PSMN1R8-40KC				Nexperia USA Inc.	PSMN1RB-40VLC,115	Digi-Key	1
11, 89	Statistics	Para-0601.1M	тм	l ,	Approved sub	Thrases.	900403E9.073M	Digi-Key	
				ĺ					2 2 2
12, R3, R6, R11, R12, R21, R23, R25, R27, 129, R45, R57	Resistor	Res-0603-10K	10K	12	Approved sub OK	lingeo	RC0603FR-071093.	Digi-Key	N N
14, R13, R14, R15, R16, R17, R10, R20, R33, 136, R39, R50, R53, R55, R58	Danistre	Res-0603-1K	w.		Approved sub	Mono	RC0603FR-071KL	Dirthiller	1
		NAMES - 18.	-	15			- Joseph W. (III.		f
15	Resistor	Rm-0603-5469	54.9k	,	Approved sub OK	Yagoo	RC0603FR-0710NL	Digi-Key	É
					Approved sub				200
17, RB, R31, R34, R37, R46, R48, R51	Resistor	Res-0603-22R	22R	- '	OK	tageo	RC0603FR-0722RL	Digi-Key	2 2 2
110, R22, R24, R36, R28, R30, R32, R35, 128, R44, R47, R49, R52	Resistor	Res-0603-100K	100K	13	Approved sub OK	Tageo	RC0603FR-0710090.	Digi-Key	ь
									2 2 2 2
119	Resistor	Rm-0603-348K	34EK	-	Approved sub OK	Yageo	RC0603FR-0753K6L	Digi-Key	9 4 0 1
140, RN1, RN2, RN3, RS4, RS9	Resistor	Res-0603-6K7	4.7K		Approved sub	Tageo	RC06031R-074K7L	Digi-Key	К
									Ţ
54	Resistor	Res-0603-140K	140K	-	Approved sub OK	Yagoo	RC0603FR-071KL	Digi-Key	218055215
loxet	SMD Tactile Switch	SW-P8		,	Approved sub OK	APEM Inc.	MJIP1106SATR	Digi-Key	
n	The high-performance, loss-power Atmel B- bit AVR RISC-based microcontroller	ATME GA2560		,		Microchip Technology	ATMEGA2560-16AU	Digi-Key	4 4 7 5 4 6
				· '		y			1
12	High Performance, Low Power LISB2.0 AVR # 8-Bit Microcontroller	ATMEGA16U2-AU		,		Microchip Technology	ATMEGA 1612-AU	Digi-Key	Ľ
						Make & Course			1
ia .		ADZ1282CI		'		Semiconductor Inc.	A021282CI	Digi-Key	2 1
И		ADZ1284				Alpha & Omega Semiconductor Inc.	AOZ128HPI	Digi-Key	1
	ESD Protection IC	USBLC6-45C6		,	Approved sub OK	STMicroelectronics	USBLC6-45C6	Digi-Key	1 4 5
5									-6
55 558_AUX 540_sel, VFA1_sel, VHE2_sel, X+, X-, Y+, Y- Z+, Z-	Header, 5-Pin	Header 5			Approved sub OK Approved sub			Digi-Key	4 5 4 N