

Bill of Materials

Sunflare Solar Team

Project:

Revision:

Date:

001-H-01 CAN to Bluetooth.PrjPCB

1.00

11/4/2020

Drachten, The Netherlands

Designator	Comment	Description	Dielectric	VoltageRating	Tolerance	Footprint	Manufacturer	Manufacturer Part	Part Number	Farnell Order	Price	Quantity	Total price
C1, C4, C7, C8, C13, C14, C15, C16, C17, C18, C20, C21, C24	100nF	Capacitor	X7R	100V		CAP0805	-	-	-		0.00	13	0
C2	4.7uF	Capacitor Pol	ELCO	63V		CAPPOL5MM	WURTH ELEKTRONIK	865060742001	2837323		0.33	1	0.33
C3, C5, C6, C9, C19	10uF	Capacitor	X7R, X5R	16V		CAP1210	TDK, Multicomp	C3225X7R1C106K200/	2112722, 1759	1.35, 0.50		5	#VALUE!
C11, C12	33pF	Capacitor	C0G	100V		CAP0805	-	-	-		0.00	2	0
C22, C23	47pF	Capacitor	C0G	50V		CAP0805	-	-	-		0.00	2	0
D1	SMA2	Diode				DIODEDO-214AC	Multicomp	S2MA	2675071		0.13	1	0.13
D2	HTA5U100	Diode Schottky				DIODEDO-214AC	Multicomp	HTA5U100	2750942		0.46	1	0.46
D3, D6	Green	Led				LEDTHT	Multicomp	MCL034GT	1581123		0.08	2	0.16
D4	PESD1CAN	ESD Protection Device, TVS, 70 V, SOT-23, 3 Pins				SOT23-3N	NXP	PESD1CAN	1510703		0.13	1	0.13
D5	RED	Led				LEDTHT	Multicomp	MCL034PT	1581121		0.06	1	0.06
F1	250mA PTC	Fuse				Fuse 1206	EATON BUSSMANN	PTS120660V010	2929345		0.26	1	0.26
H1	Hardware	Generaric hardware					IMO PRECISION CON	21.950M/2-E	2575233		0.37	1	0.37
H2	001-H-01	PCB					-	-	-		2.00	1	2
H3	001-H-02	Casing bottom					-	-	-		2.50	1	2.5
H4	001-H-03	Casing top					-	-	-		2.50	1	2.5
L1	220uH	Inductor				INDWE-PD	WE	744777222	2761710		0.971	1	0.971
L3	51uH	Choke common mode				IND200P450X300-4N	Bourns	SRF4532-510Y	2859108		0.47	1	0.47
P2	Header 2 way	Header 2 way				21.95MH/2-E	IMO PRECISION CON	21.95MH/2-E	2517885		0.15	1	0.15
P3, P4	Header 1X8 G	Connector 1X8 with Ground				TECO-1-406541-5	-	-	-		0.00	2	0
R1	100K	Resistor			1%	RES0603	-	-	-		0.00	1	0
R2	39K	Resistor			1%	RES0603	-	-	-		0.00	1	0
R3	1M0	Resistor			1%	RES0603	-	-	-		0.00	1	0
R4, R17	10K	Resistor			1%	RES0603	-	-	-		0.00	2	0
R5, R6, R8, R9, R13, R14, R18, R19, R20, R21, R22	470R	Resistor			1%	RES0603	-	-	-		0.00		0
												11	
R7, R11	15K	Resistor			1%	RES0603	-	-	-		0.00	2	0
R10, R16	330R	Resistor			1%	RES0603	-	-	-		0.00	2	0
R15	2K	Resistor			1%	RES0603	-	-	-		0.00	1	0
S1	Switch	Tactile Switch				SWITCHTE1825027-2	TE CONNECTIVITY	FSMRA4JH	1555988		0.15	1	0.15
S2	Switch	Tactile Switch				JS202011AQN	C&K COMPONENTS	JS202011AQN	2435145		0.31	1	0.31
U1	MAX5035B	5V 1A, 76V, High-Efficiency MAXPower Step-Down DC-DC Converter				SOIC-8N	Maxim Integrated Prod	MAX5035BUSA+T	2799102		3.26		3.26
U2	NCP1117DT33G	Fixed LDO Voltage Regulator, 20V in, 1.07V Dropout, 3.3V/1A out, DPAK-3				DPAK-3	ON SEMICONDUCTOF	NCP1117DT33G	1652364		0.37	1	0.37
U3	DSPIC33EP128GS804	16-Bit Digital Signal Controllers for Digital Power Applications with Interconnected High-Speed PWM, ADC, PGA and Comparators				TQFP80P1200X1200X1	Microchip	DSPIC33EP128GS804	2706170		4.44		4.44
												1	
U4	MCP2562	CAN Bus, Transceiver, CAN, LIN, 1, 1, 4.5 V, 5.5 V, SOIC				SOIC-8N	Microchip	MCP2562-E/SN	2362839		0.79	1	0.79
U5	HC-05	Bluetooth Module				HC-05	N/A	HC-05	N/A		4.00	1	4
Y1	16MHz	Crystal				XT49M-2016M	Multicomp	MCRSD16000F183000	2395958		0.19	1	0.19
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