## **Bill of Materials**

## **Sunflare Solar Team**

Drachten, The Netherlands

Project: 002-H-01 SLS to CAN.PrjPcb

Revision: -

Date: 10/25/2020

Designator	Comment	Description	Dielectric	VoltageRating Tolerance	Footprint	Manufacturer	Manufacturer Part Nc Farnell Orderc Price			Quantity	Total price
C1	33 pF	Capacitor	X7R	16V	CAP0805	-	-	-	0.00		1
C2	33pF	Capacitor	X7R	16V	CAP0805	-	-	-	0.00		1
C3, C4, C5, C6, C7, C8, C10, C11, C13, C14, C16, C19, C24, C27, C30, C31	100nF	Capacitor	X7R	16V, 100V	CAP0805	-	-	-	0.00		16
C9, C22, C29	10uF	Capacitor	X7R	16V	CAP1210	TDK	C3225X7R1C106K20	00/2112722	1.35		3 4
C12, C15	47pF	Capacitor	C0G	50V	CAP0805	-	-	-	0.00		2
C17	68uF	Capacitor Pol	ELCO	63V	CAPP8383X62N	Panasonic	EEEFK1J680UP	1850126	0.70		1
C18	3.3uF	Capacitor	X7R	100V	CAP1210	AVX	12101C335KAZ2A	2507771	1.41		1 1
C20, C23, C25, C26	0.1uF	Capacitor	X7R	16V	CAP0805	-	-	-	0.00		4
C21, C28	22uF	Capacitor Pol	X7R	10V	CAPAE4243X55M	PANASONIC	EEEHA1A220WR	1973288	0.00		2
D1	PESD1CAN	ESD Protection Device, TVS, 70 V, SOT-23, 3 Pins	3		SOT23-3N	NXP	PESD1CAN	1510703	0.13		1
D2, D3	HTA5U100	Diode Schottky			DIODEDO-214AC	Multicomp	HTA5U100	2750942	0.46		2 0
D4	RG	Led RG			CAC-75P125X160-4N	KINGBRIGHT	KPTB-1612LVSURK	CC 2846591	0.00		1
L1	51uH	Choke common mode			IND200P450X300-4N	Bourns	SRF4532-510Y	2859108	0.47		1 0
L2	100uH	Inductor			INDP3030X28N	BOURNS	SDR0302-101KL	2212477	0.408		1 0.4
L3	47uH	Inductor			INDP3030X28N	Bourns	SDR0302-470KL	2328694	0.403		1 0.4
P1, P3	RJ-45 Vertical	RJ-45 VErtical			Amphenol RJ-45 Ver	tic Amphenol	RJHSE-3P80	2709006	0.908		2 1.8
P2	Header 1X6	Connector 1X6			Header1X6P100	-	-	-	0.00		1
P4. P6	Header 1X3	Connector 1X3			Header1X3P100	-	-	-	0.00		2
P5	IMCV 1,5/ 3-G-3,5	IMCV 1,5/ 3-G-3,5 1830728			Phoenix IMCV 1.5/ 3-	-G -	-	-	0.00		1
P7. P8. P9	MSTBVA 2,5/ 2-G-5,08	MSTBVA 2,5/ 2-G-5,08 1757242			MSTBVA 2.5/ 2-G-5.0	- 80	-	-	0.00		3
R1	1M0	Resistor		1%	RES0805	-	-	-	0.00		1
R2	10K	Resistor		1%	RES0805	-	-	-	0.00		1
R3. R7. R8	470R	Resistor		1%	RES0805	-	-	-	0.00		3
R4, R5	1K0	Resistor		1%	RES0805	-	-	-	0.00		2
R6, R10	15K	Resistor		1%	RES0805	-	-	-	0.00		2
R9	220R	Resistor		1%	RES0805	-	-	-	0.00		1
R11	100K	Resistor		1%	RES0805	-	-	-	0.00		1
R12	39k	Resistor		1%	RES0805	-	-	-	0.00		1
R13, R14, R17, R18	1K	Resistor		1%	RES0805	-		-	0.00		4
R15, R16	820R	Resistor		1%	RES0805	-	-	-	0.00		2
U1	DSPIC33EP128GS804	16-Bit Digital Signal Controllers fo r Digital Power Applications with Interconnected High Speed PWM, ADC, PGA and Comparators	-		TQFP80P1200X1200	X1 Microchip	DSPIC33EP128GS8	04 2706170	4.44		1 4
U2	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
U3	MAX5035B	5V 1A, 76V, High-Efficiency MAXPower Step- Down DC-DC Converter			SOIC-8N	Maxim Integrated Prod	MAX5035BUSA+T	2799102	3.26		1 3
U4	MAX3232ID	RS232 tot TTL converter			SOIC16 MAX3232	TEXAS INSTRUMENT	S MAX3232ID	1652282	1.69		1 1
U5	AP1509-33	150KHz, 2A PWM BUCK DC/DC CONVERTER			SOIC-8N	Diodes Inc	AP1509-33SG-13	1825322	0.75		1 0
Y1	16MHz	Crystal			XT49M-2016M	Multicomp	MCRSD16000F1830	00 2395958	0.19		1 0
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