







-4000.00-R75 | C | C39 R77=1 0= C41 R78 | C | C42 Spartan Racing BMS Slave ∍rsion 1, Revision A (Sr. Proj R79 | C13 R80 | C | C44 R80 | C1 C45 #9 🕥 R82 | C | C46 Designed by Saw and Vincent Pham #8 (i) #7 (i) R832 J C1 C47 8 F1 #2 () #1 () Proj. GND | **THERMS** C48 C52 C49 C52 C50 C51 C R89 R88 R89 Ō E DIAD C III Q19 C38 R49 C37 R74 FB1 C23 Q9 LED9 Z80 R10 .010 LED10 #12 0 R22 RI6 R67 R71 2 R61 .012 LED12 #18| R63 R63 R50 013 LED13 0 **CELLS** R90 Q R28 R3/ Z45 R12 .015 LED15 F Q R6 R18 Z45 R51 .016 LED16 TI TT T2  $\bar{\boldsymbol{\tau}}$ # R54 A .017 LED17 - F16 J1 .018 LED18 R84 - F18

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	885382207009	Multilayer Ceramic Chip Capacitor WCAP- CSST Series 0805 10000pF X7R0805103K100DFC T1S000	C0, C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C53, C54, C55, C56	40							
	Capacitor	Capacitor	C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47	11	1						
	Capacitor	Capacitor	C48, C49, C50, C51, C52	į	5						
	MFU0603FF00500P500		F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12, F13, F14, F15, F16, F17, F18	18	3						
	BLM18PG330SN1D	Ferrite Bead	FB1		1						
		CONN HEADER SMD R/A 2POS 2.54MM	J1, J2	2	2 Molex	15-91-2025	Volume Production	Avnet	0015912025	3.18	6.36
	70553-0044	Connector	J3		1						
	70555-0018	Connector	J4		1						
	LS_L29K-G1H2-1	LED	LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8, LED9, LED10, LED11, LED12, LED13, LED14, LED15, LED16, LED17, LED18	18	3						
	BSS308PE	P-Channel OptiMOS P3 Small-Signal- Transistor, -30 V VDS, - 2 A ID, -55 to 150 degC, PG-SOT23, Reel, Green	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16, Q17, Q18	18	3 Infineon	BSS308PE	Volume Production	Mouser	726-BSS308PEH6327XTS	0.319	5.74
	NSV1C201MZ4T1G	Transistor	Q19		1						
	Resistor	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R12, R13, R14, R15, R16, R17, R18, R19, R20, R26, R27, R28, R29, R30, R31, R32, R33, R34, R36, R37, R38, R39, R43, R44, R45, R47, R48, R50, R51, R52, R53, R54, R58, R59, R60, R61, R62, R63, R66, R67, R68, R69, R70, R71	54	1						
	Resistor	Resistor	R11, R21, R22, R23, R24, R25, R35, R40, R41, R42, R46, R55, R56, R57, R64, R65, R72, R73	18	3						
		Resistor	R49, R74		2						
		Resistor	R75, R76, R77, R78, R79, R80, R81, R82, R83	(	9						
	Resistor	Resistor	R84, R87, R88, R89, R90, R91	(	5						
	Resistor	Resistor	R85		1						
	Resistor	Resistor	R86		1						
		Resistor	R92		1						
	Resistor	Resistor	R94, R95, R96, R97	4	1						
	SM91502ALE	BMS XFORMER 1-CH 1000V AECQ +125	T1, T2	1	2 Bourns	SM91502ALE	Volume Production	Newark	95AC3538	2.81	5.62
		18 CHANNEL MULTICELL BATTERY STA			Analog Devices / Linear Technology	LTC6813HLWE-1#3ZZPBF					
	PDZ7.5B,115	Zener Diode	Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17, Z18	18	3						