

Current Sensor_BOM

Reference	Value	Footprint	Count	FootprintLib	Distributor	PN
C1;C8;C14	1nf	C_0603_HandSoldering	3	Capacitors_SMD		
C23;C25;C21;C19	1uf	C_0603_HandSoldering	4	Capacitors_SMD	Mouser	80-C0603C105K8P
C4;C5;C6;C3;C11;C16;C10;C13;C24;C18;C17;C26;C22;C20	0.1uf	C_0603_HandSoldering	14	Capacitors_SMD		
C7;C12	10uf	C_0603_HandSoldering	2	Capacitors_SMD		
C9;C15;C2	4.7nf	C_0603_HandSoldering	3	Capacitors_SMD		
D1	LED1	LED-3MM	1	LEDs		
D2	LED2	LED-3MM	1	LEDs		
D4;D3;D5;D7;D6;D8	D_Schottky_Small	SOD-123	6	Diodes_SMD	Mouser	512-SS14FL
P1	CAN_IN	Molex-duraClick-4conn	1	User_Connectors	Mouser	538-502352-0400
P10;P11;P12	CONN_02X03	Pin_Header_Straight_2x03	3	Pin_Headers		
P2	CAN_OUT	Molex-duraClick-4conn	1	User_Connectors	Mouser	538-502352-0400
P3	DuraClick-5	Molex-duraClick-5conn	1	User_Connectors	Mouser	538-502352-0501
P4;P5;P6	Ultra-Fit	Molex-UltraFit-2p	3	Supermileage	Mouser	538-172310-2102
P7	CONN_01X03	Pin_Header_Straight_1x03	1	Pin_Headers		
P8	USB	USB_Micro-B	1	Connect	Mouser	649-10118194-0001LF
P9	CONN_01X02	Pin_Header_Straight_1x02	1	Pin_Headers		
Q1	Reverse	SOT-23_Handsoldering	1	TO_SOT_Packages_SMD	Mouser	863-NTR3A30PZT1G
R1;R3;R5	1k	R_0603_HandSoldering	3	Resistors_SMD		
R10;R22;R24	8k2	R_0603_HandSoldering	3	Resistors_SMD		
R12;R18;R20	4k7	R_0603_HandSoldering	3	Resistors_SMD		
R14;R7	100K	R_0603_HandSoldering	2	Resistors_SMD	Mouser	71-CRCW0603-100K-E3
R15;R16;R17	120R	R_0603_HandSoldering	3	Resistors_SMD	Mouser	71-CRCW0603-120-E3
R2;R4;R6	2k	R_0603_HandSoldering	3	Resistors_SMD		
R8;R26;R28	18k	R_0603_HandSoldering	3	Resistors_SMD	Mouser	
R9;R11;R13;R27;R23;R19;R29;R25;R21	1k3	R_0603_HandSoldering	9	Resistors_SMD		
SW1	RESET	SW_PUSH_6mm	1	Buttons_Switches_ThroughHole	Mouser	SKHHPPA010
SW2	BOOT	SW_PUSH_6mm	1	Buttons_Switches_ThroughHole	Mouser	SKHHPPA010
U1;U3;U5	ACS710	DIP-16-SchmartBoard	3	Supermileage		
U2	NJM2870F0	SOT-23-5	1	TO_SOT_Packages_SMD	Mouser	513-NJM2870F05-TE2
U4	MIC5317	SOT-23-5	1	TO_SOT_Packages_SMD	Mouser	998-MIC5317-3.3YM5TR
U6	STM32F042C6	TQFP-48_7x7mm_Pitch0.5mm	1	Housings_QFP	Mouser	511-STM32F042C6T6
U7	mcp2562	SOIC-8-N	1	SMD_Packages	Mouser	579-MCP2562-E/SN