

Comment	Description	Designator	Footprint	LibRef	Quantity	Supplier 1	Supplier Part Number 1
4pos-SMD-1.27mm	4pos SMD 1.27mm	P3	HDR1X4-SMD-50mls	4pos-SMD-1.27mm	1	Digi-Key	N/A
6pos-TH-2.54mm	6pos TH-2.54mm Header	P2	HDR2X3	6pos-TH-2.54mm 2x3	1	Digi-Key	952-2092-ND
104CDMCCDS-220MC	FIXED IND 22UH 5A 86 MOHM SMD	L8	Inductor_22UH 5A	104CDMCCDS-220MC	1	Digi-Key	308-2498-1-ND
3147-B1911NG--20C000214U1930CT-ND	LED GREEN DIFFUSED 0603 SMD	LED2	LED-0603-2PIN-SILKSCREEN	LED_GREEN	1	Digi-Key	3147-B1911NG--20C000214U1930CT-ND
3147-B1931NB--20C007614U1930CT-ND	LED BLUE CLEAR 0603 SMD	LED3, LED4, LED5	LED-0603-2PIN-SILKSCREEN	LED_BLUE	3	Digi-Key	3147-B1931NB--20C007614U1930CT-ND
3404.2419.11	2 A 277 V AC 250 V DC Fuse Board Mount (Cartridge Style Excluded) Requires Holder, Surface Mount 2-SMD, Square End Block with Clip	L7	2-SMD-Fuse	3404.2419.11	1	Digi-Key	486-2091-ND
ACNR21307	MOSFET-P-CH 30V 24A80DN	Q1, Q2	DRN8_3x3_Power	ACNR21307	2	Digi-Key	785-1796-2-ND
BZT52C6V2-TP	Zener Diode 6.2 V 200 mW±6% Surface Mount SOD-123	DZ1	SOD-123	BZT52C6V2-TP	1	Digi-Key	BZT52C13-TPMSCT-ND
CAPALUM 100UF 20% 25V RADIAL SIDE	CAPALUM 100UF 20% 25V RADIAL	C12	CAPACITOR Aluminum-5x11mm-2mmPitch - SIDE	Capacitor-100uF-25V Side	1	Digi-Key	399-6102-ND
CAPALUM 100UF 20% 50V SMD	CAPALUM 100UF 20% 50V SMD	C79	CAP_J V_8X10P5_RUB	Capacitor-100UF-50V SMD	1	Digi-Key	1189-1651-1-ND
CAPALUM 220UF 20% 35V SMD	CAPALUM 220UF 20% 35V SMD	C84	CAP_J V_8X10P5_RUB	Capacitor-220UF-35V SMD	1	Digi-Key	1189-1651-1-ND
Capacitor-0603-0.1uF-50V-X7R	Capacitor-0603-0.1uF-50V-X7R	C3, C4, C6, C7, C8, C13, C41	CAPACITOR-0603	Capacitor-0603-0.1uF-50V-X7R	7	Digi-Key	1276-1935-2-ND
Capacitor-0603-1uF-25V-X5R	Capacitor-0603-1uF-25V-X5R	C40	CAPACITOR-0603	Capacitor-0603-1uF-25V-X5R	1	Digi-Key	1276-1859-2-ND
Capacitor-0603-10nF-50V-X7R	Capacitor-0603-10nF-50V-X7R	C78	CAPACITOR-0603	Capacitor-0603-10nF-50V-X7R	1	Digikey	490-4778-1-ND
Capacitor-0603-10uF-10V-X5R	10 uF±20% 10V Ceramic Capacitor X5R0603 (1608 Metric)	C1, C2, C5, C9, C10, C11	CAPACITOR-0603	Capacitor-0603-10uF-10V-X5R	6	Digikey	4713-GMCT0X5R106M10NTCT-ND
Capacitor-0603-82pF-50V-C0G	Capacitor-0603-82pF-50V-C0G	C82	CAPACITOR-0603	Capacitor-0603-82pF-50V-C0G	1	Digi-Key	478-KGM15ACG1H820JICT-ND
Capacitor-0805-22uF-25V-X5R	Capacitor-0805-22uF-25V-X5R	C14, C15, C16, C17, C18, C19, C20, C83	CAPACITOR-0805	Capacitor-0805-22uF-25V-X5R	8	Digi-Key	490-12389-1-ND
CDB4540-HF	DIODE SCHOTTKY 40V 5A SMA	D5	SMAWDO-214AC	CDB4540-HF	1	Digi-Key	641-1707-1-ND
ESDCA24-2BLY	55V Clamp 6A (8/20us) Ipp Tvs Diode Surface Mount SOT-23	D2	SOT-23-3	ESDCA24-2BLY	1	Digi-Key	5272-ESDCA24-2BLYCT-ND
ESP32-S3-WROOM-1U	2.4 GHz Wi-Fi (802.11 b/g/n) and Bluetooth 5 (LE) module	U2	ESP32-S3-WROOM-1U	ESP32-S3-WROOM-1U	1	Digikey	1965-ESP32-S3-WROOM-1U-NR6CT-ND
MMS25254B-TP	DIODE ZENER 27V 500MW SOD123	DZ3	SOD-123F	MMS25254B-TP	1	Digi-Key	MMS25254B-TPMSCT-ND
MSS1P3L-M3/89A	Diode 30 V 1A Surface Mount MicroSMP (DO-219AD)	D22	DO-219AD	MSS1P3L-M3/89A	1	Digi-Key	MSS1P3L-M3/89AGICT-ND
NCV1117ST33TG	IC REG LINEAR 3.3V 1A SOT223	U1	SOT-223-3/T0-261-3S	NCV1117ST33TG	1	Digi-Key	NCP1117ST15T3 GOSTR-ND
NUP4301MR6T1G	40CH Clamp Ipp Tvs Diode Surface Mount SOT23-6 (SC74)	D1	SOT-23-6	NUP4301MR6T1G	1	Digi-Key	NUP4301MR6T1 GOSTR-ND
PTS815 SLM250 SMTR LFS	TACT 4.2 X 3.2, 2.5 MMH, 180GF	SW1, SW2	SW4 PTS815 SLM 250 SMTR LFS, CNK	PTS815 SLM250 SMTR LFS	2	Digi-Key	CKN12215-1-ND
RAJ5 UnShield	Jack Modular Connector 8pdc (RJ45, Ethernet) 90° Angle (Right) Unshielded Cat3	P5, P6	AMPHENOL_54602-90BLF	RJ45	2	Digikey	609-1046-ND
RT6285GSP	5A Buck Switching Regulator IC Positive Adjustable 1.222V 1 Output 5A 8-SOIC (0.154", 3.90mm Width) Exposed Pad	U5	SOIC-8-EXPOSED-PAD	RT6285GSP	1	Digi-Key	1028-RT6285GSPCT-ND
SMTresistor	Resistor0603-1k	R6, R9, R10, R75	Resistor-0603	Resistor-0603-1k	4	Digi-Key	311-1.00KH-RCT-ND
SMTresistor	Resistor0603-10k	R1, R6, R7, R38, R39	Resistor-0603	Resistor0603-10k	5	Digi-Key	311-10.0KH-RT-ND
SMTresistor	Resistor0603-10k	R52	Resistor-0603	Resistor-0603-10k	1	Digi-Key	311-10.0KH-RT-ND
SMTresistor	Resistor0603-31.6k	R5	Resistor-0603	Resistor-0603-31.6k	1	Digi-Key	311-31.6KH-RCT-ND
SMTresistor	Resistor0603-100k	R53	Resistor-0603	Resistor-0603-100k	1	Digi-Key	311-100KH-RCT-ND
SMTresistor	Resistor-0603-5.1k	R2, R3	Resistor-0603	Resistor-0603-5.1k	2	Digi-Key	311-5.10KH-RCT-ND
SN65HVD232DR	1/1 Transceiver Half CANbus 8-SOIC	U3	SOIC-8	SN65HVD232DR	1	Digikey	296-26344-1-ND
SSM3B32R	P-Channel 30 V 6A (Ta) 1W (Ta) Surface Mount SOT-23F CONN RCP USB2.0	Q3	SOT-23-3	SSM3B32R	1	Digi-Key	SSM3B32R-LCT-ND
USB4105-GF-A	TYP C 24P SMD RA 5A	P1	USB-C	USB4105-GF-A	1	Digikey	2073-USB4105-GF-ACT-ND