

Comment	Description	Designator	Footprint	LibRef	Quantity
22uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT SUGGESTED SMALLER ALTERNATIVE GRM188R60J226MEAO0	C1, C3, C4	CAPC2012X145N	GRM21BC60J226ME15L	3
22uF	CERAMIC CAPACITORS [MLCC (High dielectric type) for Automotive (BODY & CHASSIS, INFOTAINMENT) Applications] Multilayer Ceramic Capacitors MLCC - SMD/SMT 0.1uF 35V X5R +/-10% 0805 AEC-Q200	C2	CAPC2012X135N	GMK212BJ104KGHT	1
0.1uF	CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 50V X7R 0603, CAP CER 0.1UF 10V X7R 0603	C5, C6, C7, C8, C9, C11, C15	C 0603	CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 10V X7R 0603, CAP CER 0.1UF 50V X7R 0603, CAP CER 0.1UF 10V X7R 0603	7
10uF	CAP CER 10UF 50V Y5V 1210	C10	CAPC3225X290N	12105G106ZAT2A_500	1
56pF	CAP CER 56PF 50V COG/NPO 0402	C12	C 0402	CAP CER 56PF 50V COG/NPO 0402	1
22uF	CAP CER 22UF 6.3V X5R 0603	C13, C14	C 0603	CAP CER 22UF 6.3V X5R 0603	2
BAT54S	BAT54 Series 0.8 V 200 mA 30 V Max Reverse Voltage Schottky Diode - SOT-23-3	D1, D2, D3, D4	SOT95P240X120-3N	BAT54S	4
Pulse	Cảm	H1	Header 2P DC 2.54	Header 2P 2.54 Duc Cong	1
HEADER_UART_MODULE	Cảm	H2	XH2.54M-4	Header 4P 2.54 Duc Thang	1
Dlr	Cảm	H3	Header 2P DC 2.54	Header 2P 2.54 Duc Cong	1
Button_1-4	Cảm	H4	Header 5P DC 2.54	Header 5P 2.54 Duc Cong	1
Limit_SW_1-2	Cảm	H5	Header 3P DC 2.54	Header 3P 2.54 Duc Cong	1
HEADER_OLED_I2C	Cảm	H6	XH2.54M-4	Header 4P 2.54 Duc Thang	1
4.7uF	Inductor IHLP SMD 2525 4.7uH Vishay IHLP2525CZ-01 Series Shielded Wire-wound SMD Inductor 4.7 uH +/-20% 5.5A Idc	L1	INDM6965X300N	IHLP2525CZER4R7M01	1
282837-2	Connector Terminal Blocks Receptacle 2 Position 5.08mm Solder Straight Thru-Hole 13.5A/Contact	P1, P2, P3	TE_282837-2	282837-2	3
BCW66GLT1G	NPN Bipolar Transistor	Q1, Q2	SOT95P237X111-3N	BCW66GLT1G	2
2.2K	RES SMD 2.2K OHM 5% 1/2W 0805	R1, R5, R13, R14, R15, R16	RES 0805	RES SMD 2.2K OHM 5% 1/2W 0805	6
100K	RES SMD 100K OHM 1% 1/10W 0603	R2	Res 0603	RES SMD 100K OHM 1% 1/10W 0603	1
1K	Thick Film Resistors - SMD 0603 1Kohms 5% AEC-Q200	R3, R9	ERJ3EKF1000V	ERJ-3GEYJ102V	2
10K	Thick Film Resistors - SMD 0603 10Kohms 5% AEC-Q200	R4, R11	ERJ3EKF1000V	ERJ3GEYJ103V	2
100K	RES SMD 100K OHM 1% 1/10W 0603	R6	RESC1607X60N	RES SMD 100K OHM 1% 1/10W 0603	1
4.7k	4.7 kOhms A±1% 0.1W, 1/10W Chip Resistor 0603_1608 Metric, Moisture Resistant Thick Film	R7, R8, R10, R12, R19, R20	RESC1607X60N	RC0603FR-074K7L	6
9k1	RES SMD 9.1K OHM 1% 1/10W 0603	R17, R18	Res 0603	RES SMD 9.1K OHM 1% 1/10W 0603	2
100K	Panasonic ERJ2RK Series Thick Film Surface Mount Fixed Resistor 0402 Case +/- 1% 0.1W +/-100ppm/C	R21, R22	ERJ2RKD1004X	ERJ2RKF1003X	2
93.1k	Thick Film Resistors 93.1K OHM 1%	R23	RESC1005X40N	RC0402FR-0793K1L	1
30.1k	Panasonic Surface Mount Fixed Resistor 30.1 k 0.1 W +/-100 ppm/C	R24	ERJ2RKD1004X	ERJ-2RKF3012X	1
ZC323000	STM32F103C8T6 ARM STM32 Minimum System Development Board Module For Arduino	U1	MODULE_ZC323000	ZC323000	1
PC817X2NIP0F	Optoisolator Transistor Output 5000Vrms 1 Channel 4-SMD	U2, U3	SOT254P975X400-4N	PC817X2NIP0F	2
AP63300WU-7	Buck Switching Regulator	U4	SOT95P280X100-6N	AP63300WU-7	1