



Comment	Description	Designator	Footprint	LibRef	Quantity
3.3V	Typical RED GaAs LED	3.3V	D0805	LED	
5V	Typical RED GaAs LED	5V	D0805	LED	
12V	Typical RED GaAs LED	12V	D0805	LED	
Α	Typical RED GaAs LED	A	D0805	LED	
	Capacitor				
39pF	(Semiconductor SIM	C1	CC2012-0805	Cap Semi	
	Model)	C2, C5, C8, C10, C11,			
100nF	Capacitor	C12, C14, C16, C18,	CC2012 0005	Con Const	
	(Semiconductor SIM Model)	C19, C20, C22, C23,	CC2012-0805	Cap Semi	1
	Capacitor	C24, C25, C26, C27, C28			
10nF	(Semiconductor SIM	C3. C13	CC2012-0805	Cap Semi	
	Model)	,			
470uF	Polarized Capacitor (Radial)	C4, C15	CAP10x12	Cap Pol DIP	
	Capacitor				
20pF	(Semiconductor SIM	C6, C9	CC2012-0805	Cap Semi	
	Model) Polarized Capacitor				
2200uF	(Axial)	C7, C17	SV-H	Cap Pol SMD	
	Capacitor				
2.2uF	(Semiconductor SIM Model)	C21, C31, C32	CC2012-0805	Cap Semi	
	Capacitor				
10uF	(Semiconductor SIM	C29, C30	CC2012-0805	Cap Semi	
	Model)				
SS54	Schottky Diode	D1	SMA	D Schottky	
D Schottky SS84	Schottky Diode	D2, D3	SMC	D Schottky	
воот	Typical RED GaAs LED	D5	D0805	LED	
3A Fuse	Fuse	F1	FUSE SOCKET	Fuse	
22uH	Inductor	L1	MSS1260	Inductor	
15uH	Inductor	L2	MSS1260	Inductor	
FB	Inductor	L3. L4	CL3225-1210	Inductor	
		P1			
LCD	Header, 7-Pin		HDR1X7	Header 7	
POWER	Header, 2-Pin	P2	T-CONNECTOR(M)	Header 2	
SPI	Header, 6-Pin	P3	HDR1X6	Header 6	
UART1	Header, 4-Pin	P4	LOCKEDHDR-4	Header 4	
UART2	Header, 4-Pin	P5	LOCKEDHDR-4	Header 4	
SWD	Header, 4-Pin	P6	LOCKEDHDR-4	Header 4	
I2C	Header, 4-Pin	P7	LOCKEDHDR-4	Header 4	
ENC1	Header, 5-Pin	P8	lockedHDR-5	Header 5	
ENC2	Header, 5-Pin	P9	lockedHDR-5	Header 5	
CAN	Header, 4-Pin	P10	LOCKEDHDR-4	Header 4	
ser3	Header, 3-Pin	P11	LOCKEDHDR-3	Header 3	
ser 2	Header, 3-Pin	P12	LOCKEDHDR-3	Header 3	
ser 1	Header, 3-Pin	P13	LOCKEDHDR-3	Header 3	
GPIO1	Header, 3-Pin	P14	LOCKEDHDR-3	Header 3	
Buzzer		P15	BUZ-9.0	Buzzer	
GPIO2	Header, 3-Pin	P16	LOCKEDHDR-3	Header 3	
GPIO3	Header, 3-Pin	P17	LOCKEDHDR-3	Header 3	
GPIO4	Header, 3-Pin	P18	LOCKEDHDR-3	Header 3	
GPIO5	Header, 3-Pin	P19	LOCKEDHDR-3	Header 3	
GPIO6	Header, 3-Pin	P20	LOCKEDHDR-3	Header 3	
GPIO7	Header, 3-Pin	P21	LOCKEDHDR-3	Header 3	
GPIO8	Header, 3-Pin	P22	LOCKEDHDR-3	Header 3	
AO3400	N-Channel MOSFET	01	SO-G3/Z3.3	AO3400	
60R	Semiconductor Resistor	R1, R2	CR2012-0805	Res Semi	
6k2	Semiconductor Resistor	R3, R7	CR2012-0805	Res Semi	
4k7	Semiconductor Resistor	R4, R8	CR2012-0805	Res Semi	
1k5	Semiconductor Resistor	R5, R9	CR2012-0805	Res Semi	
162k	Semiconductor Resistor	R6	CR2012-0805	Res Semi	
4.7K	Semiconductor Resistor	R10	CR2012-0805	Res Semi	
330R	Semiconductor Resistor	R11, R12, R14, R20, R28	CR2012-0805	Res Semi	
		R13, R15, R16, R17,			
100k	Semiconductor Resistor	R19, R21	CR2012-0805	Res Semi	
200k	Semiconductor Resistor	R18, R22, R23, R24, R25, R26	CR2012-0805	Res Semi	
225	Contractor 5 5	R27, R30, R31, R32,	CD2042 00C-	Des Court	
33R	Semiconductor Resistor	R33, R34, R35, R36, R37	CR2012-0805	Res Semi	
10k	Semiconductor Resistor	R29	CR2012-0805	Res Semi	
SER	Typical RED GaAs LED	SER	D0805	LED	
RESET	Single-Pole, Single-	SW1	PUSH SWITCH	SW-SPST	
	Throw Switch Single-Pole, Single-				
B1	Throw Switch	SW2	PUSH SWITCH	SW-SPST	
B2	Single-Pole, Single-	SW3	PUSH SWITCH	SW-SPST	
	Throw Switch				
В3	Single-Pole, Single- Throw Switch	SW4	PUSH SWITCH	SW-SPST	<u> </u>
B4	Single-Pole, Single-	SW5	PUSH SWITCH	SW-SPST	
	Throw Switch		. 5511 51111011	-7-3-31	
PWR	Header, 3-Pin, Dual row	SW6	POWER SWITCH	Header 3X2	
TJA1050	5V to 12V Charge Pump	U1	SOP-8	TJA1050	
	STM32 ARM-based 32-				
STM32F407RET6	bit MCU with 64 Kbytes	U2	LQFP64_N	STM32F407RET6	
JE1 707 NE 10	Flash, 100-pin LQFP,			C.MSEI TOTRETO	
	Industrial Temperature 5A Step-Down			 	
LM2679	Switching Mode	U3, U4	TO-263(7)	LM2679	
	Voltage Regulator			-	-
	800mA Low-Dropout	US	MP04A_N	LM1117MP-3.3	ĺ
LM1117MP-3.3	Linear Regulator	03			