



Comment	Description	Designator	Footprint	LibRef	Quantity
3.3V	Typical RED GaAs LED	3.3V	D0805	LED	1
5V	Typical RED GaAs LED	5V	D0805	LED	1
10uF	Capacitor (Semiconductor SIM Model)	C1, C2	CC2012-0805	Cap Semi	2
100n	Capacitor (Semiconductor SIM Model)	C3, C4	CC2012-0805	Cap Semi	2
20pF	Capacitor (Semiconductor SIM Model)	C5, C6, C14	CC2012-0805	Cap Semi	3
100nF	Capacitor (Semiconductor SIM Model)	C7, C8, C9, C10, C11, C12, C16, C18	CC2012-0805	Cap Semi	8
2.2uF	Capacitor (Semiconductor SIM Model)	C13, C15, C17	CC2012-0805	Cap Semi	3
4.7uF	Capacitor (Semiconductor SIM Model)	C19, C20	CC2012-0805	Cap Semi	2
0.1uF	Capacitor (Semiconductor SIM Model)	C21, C22	CC2012-0805	Cap Semi	2
BOOT	Typical RED GaAs LED	D1	D0805	LED	1
LED Tricolor	Typical RED GaAs LED	D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17	5050_LED	LED Tricolor	16
LED_Feedback	Typical RED GaAs LED	DF0, DF1, DF2, DF3, DF4, DF5, DF6, DF7, DF8, DF9, DF10, DF11, DF12, DF13, DF14, DF15	D0805	LED	16
FB	Inductor	L1	CL3225-1210	Inductor	1
UART	Header, 4-Pin	P1	LOCKEDHDR-4	Header 4	1
SWD	Header, 4-Pin	P2	LOCKEDHDR-4	Header 4	1
CAN	Header, 4-Pin	P3, P4	LOCKEDHDR-4	Header 4	2
S11154-01	Photosensitive Diode	PD0, PD1, PD2, PD3, PD4, PD5, PD6, PD7, PD8, PD9, PD10, PD11, PD12, PD13, PD14, PD15	D0805	Photoiode	16
IRFR48Z	HEXFET N-Channel	Q1, Q2, Q3	TO-252AA	IRFR48Z	3
330R	Power MOSFET Semiconductor Resistor	R1, R4	CR2012-0805	Res Semi	2
4.7k	Semiconductor Resistor	R2, R3, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23	CR2012-0805	Res Semi	18
100k	Semiconductor Resistor	R5	CR2012-0805	Res Semi	1
60R	Semiconductor Resistor	R6, R7	CR2012-0805	Res Semi	2
56R	Semiconductor Resistor	R24	CR6332-2512	Res Semi	1
5R	Semiconductor Resistor	R25	CR6332-2512	Res Semi	1
10R	Semiconductor Resistor	R26	CR6332-2512	Res Semi	1
1k	Semiconductor Resistor	R27, R28, R29	CR2012-0805	Res Semi	3
A	Single-Pole, Single- Throw Switch	SW1	PUSH SWITCH	SW-SPST	1
В	Single-Pole, Single-	SW2	PUSH SWITCH	SW-SPST	1
BOOT	Throw Switch Header, 3-Pin, Dual row	SW3	POWER SWITCH	Header 3X2	1
RST	Single-Pole, Single- Throw Switch	SW4	PUSH SWITCH	SW-SPST	1
LM1117MP-3.3	800mA Low-Dropout	U1	MP04A_N	LM1117MP-3.3	1
STM32F103RBT6	Linear Regulator STM32 ARM-based 32- bit MCU with 128 Kbytes Flash, 64-pin LQFP, Industrial Temperature	U2	LQFP64_M	STM32F103RBT6	1
TJA1050	5V to 12V Charge Pump	U3	SOP-8	TJA1050	1
IR4427	dual-MOSFET driver	U4, U5	SOP-8	IR4427	2
8MHz	Crystal Oscillator	X1	BCY-W2/E4.7	XTAL	1