





Comment	Description	Designator	Footprint	LibRef	MF	MPN	Quantity
Hello_Robot_Logo			HELLO_ROBOT_LOGO	Hello_Robot_Logo			1
S2B-PH-SM4-TBLUFJ(SN)	CONN HEADER SMD R/A 2POS 2MM	BRAKE	JST_S2B-PH-SM4-SMT	S2B-PH-SM4-TBLUFJ(SN)	JST	S2B-PH-SM4-TBLUFJ(SN)	1
0.1uF 25V	CAP CER 0.1uF 25V Y5V 0603	C1, C2, C3, C3, C10, C13, C18, C19		Capacitor_0603_0.1uF_25V	Samsung	CL10F104ZABNNNC	8
12PF 50V	CAP CER 12PF 50V COG/NPO 0603	C7, C8	0603-CAP	Capacitor_0603_12PF_50V	Samsung	CL10C120J8BNNNC	2
1uF 25V	CAP CER 1uF 25V XSR 0603	C9, C11, C12	0603-CAP	Capacitor_0603_1uF_25V	Samsung	CL10A105KASLNNC	3
0.22uF 50V	CAP CER 0.22uF 50V XSR 0603	C16, C20	0603-CAP	Capacitor_0603_0.22uF_50V	Murata	GRM188R61H224KAC4D	2
100uF 50V	CAP ALUM 100uF 20% 50V SMD	C17	DB-POL-CAP	Capacitor_Pol_100uF_50V	Panasonic	EEE-FTH101XAP	1
Yellow	LED Yellow CLEAR SMD R/A	DBG	CHIPLED_0805_NOOULTUNE - RA	LED_0805_Yellow_RA	Lite-On	LTS1-S220KSKT	1
250mA	PTC RESET FUSE 16V 250mA 1206	F1	1206	Fuse_PTC_250mA	Littelfuse	1206L025YR	1
0Ohm	JUMPER TIN SMD	GND	JUMPER_10A_0Ohm	Jumper_DOHm_10A	Harwin	S1911-46R	1
	M3 through hole	H1, H2, H3, H4	M3_BOLT_HOLE_PAD	M3_BOLT_HOLE_PAD			4
220 Ohm	FERRITE BEAD 220 OHM 0805 1LN	L1	0805-CAP	Ferrite_0805_220OHM	MURATA	BLM21PG215SN1D	1
470 OHM	FERRITE BEAD 470 OHM 0603 1LN	L2	0603-TDK	Ferrite_0603_470OHM	MURATA	BLM18PG4715SN1D	1
S4B-XH-ALFJ(SN)	CONN HEADER R/A 4POS 2.5MM	MOTOR	JST_S4B-XH-A	S4B-XH-ALFJ(SN)	JST	S4B-XH-ALFJ(SN)	1
SHrouded-2X5-P127	CONN HEADER SMD 10POS 1.27MM	PGM	HEADER-2X5-P127-SMD	SHrouded-2X5-P127	Amphenol ICC	20021521-00010T1UF	1
S3B-XH-ALFJ(SN)	CONN HEADER R/A 3POS 2.5MM	POWER	JST_S3B-XH-A	S3B-XH-ALFJ(SN)	JST	S3B-XH-ALFJ(SN)	1
BSS138	MOSFET N-CH 60 V 320 mA	Q1	SOT323	MOSFET-N_320MA	Neupelia	BSS138PW115	1
330	RES SMD 330 OHM 5% 1/4W 0603	R3	0603-RES	Resistor_0603_330Ohm_5%	Panasonic	ERJ-PA1J331V	1
0.1Ohm	RES 0.1 OHM 1% 1/3W 1206	R5, R6	1206-RES	Resistor_1206_0.1Ohm_1%	Samsung ElectroMechanics	RUT3216FR100CS	2
1K	RES SMD 1K OHM 1% 1/10W 0603	R7, R8	0603-RES	Resistor_0603_1K_1%	Panasonic	ERJ-3EKF1001V	2
1MOhm	RES 1M OHM 1% 1/8W 0805	R10	0805-RES	Resistor_0805_1MOhm_1%	Stackpole	RMCF0805FT1M00	1
200K	RES 200K OHM 1% 1/8W 0805	R11	0805-RES	Resistor_0805_200K_1%	Stackpole	RMCF0805FT200K	1
TACT_Switch_4.2MM	SWITCH TACTILE SPST-NO 0.05A 16V	RESET	TACT4.2MM	TACT_Switch_4.2MM	C&K	PTS810 SM 250 SMTR LFS	1
RCU-OC	PC TEST POINT NATURAL	T3V3, TGND	PC_TESTPOINT	TESTPOINT_SMD_1p6mm	TE Connectivity	RCU-OC	2
AS5047D	ROTARY ENCODER MAGNETIC PROG	U1	TSSOP14	Encoder_AS5047D	AMS	AS5047D	1
AP2112K-3.3TRG1	IC REG LINEAR 3.3V 600MA SOT23	U2	SOT23	Regulator_AP2112K-3.3	Diodes Inc	AP2112K-3.3TRG1	1
SAMD21G18A-AUT	Atmel D21 32bit ARM Cortex-M0 microcontroller - 48 PIN TQFP 256KB flash memory + 32KB SRAM	U3	TQFP48-7X7	SAMD21G18A-AUT	Microchip	SAMD21G18A-AUT	1
A4950ELIT R-T	IC MOTOR DRIVER BV-40V BSOIC	U4, U5	S08_PAD	A4950_Motor_Driver	Allegro	A4950ELIT R-T	2
	CONN USB MICRO B RECP T SMT R/A	USB	MICRO_USB_B_RA_SMT	MICRO_USB_B_RA_SMT	Amphenol	10118193-0001LF	1
5V	Varistor 1 Circuit Surface Mount, MLCV 0603	V1, V2	0603-RES	Varistor_0603_5V	Bournes	CG0603MLC-05E	2
32.768KHZ	CRYSTAL 32.768KHZ	Y1	CRYSTAL-25	Crystal_25M	Diodes Inc	GB3270022	1