

Comment	Description	Designator
Hello_Robot_Logo		
S2B-PH-SM4-TB(LF)(SN)	CONN HEADER SMD R/A 2POS 2MM	BRAKE
0.1UF 25V	CAP CER 0.1UF 25V Y5V 0603	C1, C2, C3, C5, C10, C13, C18, C19
12PF 50V	CAP CER 12PF 50V C0G/NP0 0603	C7, C8
1UF 25V	CAP CER 1UF 25V X5R 0603	C9, C11, C12
0.22uF 50V	CAP CER 0.22UF 50V X5R 0603	C16, C20
100uF 50V	CAP ALUM 100UF 20% 50V SMD	C17
Yellow	LED Yellow CLEAR SMD R/A	DBG
250mA	PTC RESET FUSE 16V 250MA 1206	F1
00hm	JUMPER TIN SMD	GND
	M3 through hole	H1, H2, H3, H4
220 Ohm	FERRITE BEAD 220 OHM 0805 1LN	L1
470 OHM	FERRITE BEAD 470 OHM 0603 1LN	L2
S4B-XH-A(LF)(SN)	CONN HEADER R/A 4POS 2.5MM	MOTOR
HEADER-Shrouded-2X5-P127	CONN HEADER SMD 10POS 1.27MM	PGM
S3B-XH-A(LF)(SN)	CONN HEADER R/A 3POS 2.5MM	POWER
BSS138	MOSFET N-CH 60 V 320 mA	Q1
330	RES SMD 330 OHM 5% 1/4W 0603	R3
0.1Ohm	RES 0.1 OHM 1% 1/3W 1206	R5, R6
1K	RES SMD 1K OHM 1% 1/10W 0603	R7, R8
1MOhm	RES 1M OHM 1% 1/8W 0805	R10
200K	RES 200K OHM 1% 1/8W 0805	R11
TACT_Switch_4.2MM	SWITCH TACTILE SPST-NO 0.05A 16V	RESET
RCU-0C	PC TEST POINT NATURAL	T3V3, TGND
AS5047D	ROTARY ENCODER MAGNETIC PROG	U1
AP2112K-3.3TRG1	IC REG LINEAR 3.3V 600MA SOT25	U2
SAMD21G18A-AUT	Atmel D21 32bit ARM Cortex-M0 microcontrolle	U3
A4950ELJTR-T	IC MOTOR DRIVER 8V-40V 8SOIC	U4, U5
	CONN USB MICRO B RECPT SMT R/A	USB
5V	Varistor 1 Circuit Surface Mount, MLCV 0603	V1, V2
32.768KHZ	CRYSTAL 32.768KHZ 12.5PF SMD	Y1

Footprint	MF	MPN	Quantity
HELLO_ROBOT_LOGO			1
JST_S2B-PH-SM4-SMT	JST	S2B-PH-SM4-TB(LF)(SN)	1
0603-CAP	Samsung	CL10F104ZA8NNNC	8
0603-CAP	Samsung	CL10C120JB8NNNC	2
0603-CAP	Samsung	CL10A105KA5LNNC	3
0603-CAP	Murata	GRM188R61H224KAC4D	2
D8-POL-CAP	Panasonic	EEE-FTH101XAP	1
CHIPLED_0805_NOOUTLINE - RA	Lite-On	LTST-S220KSKT	1
1206	Littelfuse	1206L025YR	1
JUMPER_10A_0Ohm	Harwin	S1911-46R	1
M3_BOLT_HOLE_PAD			4
0805-CAP	MURATA	BLM21PG221SN1D	1
0603-TDK	MURATA	BLM18PG471SN1D	1
JST_S4B-XH-A	JST	S4B-XH-A(LF)(SN)	1
HEADER-2X5-P127 -SMD	Amphenol ICC	20021521-00010T1LF	1
JST_S3B-XH-A	JST	S3B-XH-A(LF)(SN)	1
SOT323	Nexperia	BSS138PW,115	1
0603-RES	Panasonic	ERJ-PA3J331V	1
1206-RES	Samsung ElectroMechanics	RUT3216FR100CS	2
0603-RES	Panasonic	ERJ-3EKF1001V	2
0805-RES	Stackpole	RMCF0805FT1M00	1
0805-RES	Stackpole	RMCF0805FT200K	1
TACT4.2MM	C&K	PTS810 SJM 250 SMTR LFS	1
PC_TESTPOINT	TE Connectivity	RCU-0C	2
TSSOP14	AMS	AS5047D	1
SOT25	Diodes Inc	AP2112K-3.3TRG1	1
TQFP48-7X7	Microchip	SAMD21G18A-AUT	1
SO8_PAD	Allegro	A4950ELJTR-T	2
MICRO_USB_B_RA_SMT	Amphenol	10118193-0001LF	1
0603-RES	Bournes	CG0603MLC-05E	2
CRYSTAL-2SMD	Diodes Inc	G83270022	1