











Bill of Materials

Project: RobTek_Gripper.PrjPcb
Variant: None

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/alue	Comment	Description	Designator	Footprint	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2	Supplier 3	Supplier Part Number 3	Supplier 4	Supplier Part Number 4	Quantity
uF	25V	Capacitor, SMD, 0	C1, C5, C6, C13, C15, C16, C17, C27,	0603C	RS-Components		Famell		Digi-Key		Mouser		
pF	50V	Capacitor, SMD, 0	C3, C4	0603C	RS-Components		Famell		Digi-Key		Mouser		
7nF	50V	Capacitor, SMD, 0	C7	0603C	RS-Components		Famell		Digi-Key		Mouser		
.33uF	50V	Capacitor, SMD, 0	C8, C9, C10	0603C	RS-Components		Famell		Digi-Key		Mouser		
0pF	50V	Capacitor, SMD, 0	C11, C12	0603C	RS-Components		Famell		Digi-Key		Mouser		
uF	10V	Capacitor, SMD, 0	C14, C18	0603C	RS-Components		Famell		Digi-Key		Mouser		
.7uF	50V	4.7µF 50V Ceramio	C19	1206C	RS-Components		Famell		Digi-Key	1276-3179-1-ND	Mouser		
50uF	PCR1V151MCL6	150µF 35V Alumin	C20	ELYT SIZE F	RS-Components		Famell		Digi-Key	493-13761-1-ND	Mouser	647-PCR1V151MCL6GS	
2uF	25V	22µF 25V Ceramic	C21	1210C_H	RS-Components		Famell		Digi-Key	490-3889-2-ND	Mouser		
0uF	10V	Capacitor, SMD, 0	C25	0805C	RS-Components	106-846	Famell		Digi-Key	490-1709-1-ND	Mouser		
01uF	50V	Capacitor, SMD, 0	C28, C37	0603C	RS-Components		Famell		Digi-Key		Mouser		
0uF	50V	10µF ±10% 50V C	C30, C39	1210C_H	RS-Components		Famell		Digi-Key	1276-3388-1-ND	Mouser		
	SMBJ28A-13-F	45.4V Clamp 13.2	D1	DO-214AA	RS-Components		Famell		Digi-Key	SMBJ28A-FDICT-ND	Mouser		
	WP934MD/LILG	LED Circuit Board	D2	WP934MD/LIL0	RS-Components		Famell		Digi-Key	754-2010-ND	Mouser		
.85.A	0ZCG0075BF2B	Polymeric PTC Re	F1	2920F	RS-Components		Famell		Digi-Key	507-1747-1-ND	Mouser		
	D-sub9 Male	9 Position D-Sub F	J1	A-DS 09 A/KG-	RS-Components		Famell		Digi-Key	AE10968-ND	Mouser		
	2x6 Header	Header Male 2x6,	J2	HDR2X6 Recep	RS-Components		Famell		Digi-Key		Mouser		
	2x8 Header	Header Male 2x8,	J3	HDR2X8 Recept	RS-Components		Famell		Digi-Key	S7111-ND	Mouser		
00R@100N	Mh 600R@100Mhz	Ferrite bead 1A, 20	L1	0603L	RS-Components		Famell		Digi-Key	732-1593-1-ND	Mouser		
30R@100M	Mh 600R@100Mhz	Ferrite bead 1.5A,	L2	0805L	RS-Components		Famell		Digi-Key	490-5988-1-ND	Mouser		
6.8uH	PA4332.682NLT	6.8µH Shielded Wi	L3	PA4332	RS-Components		Famell		Digi-Key	553-3293-1-ND	Mouser		
	USBasp	USBasp programm	P1	HDR2X5 FLAD	RS-Components		Famell		Digi-Key	3M15452-ND	Mouser		
	BUSH, M3, SMT	Round Standoff The	P2	9774110360R	RS-Components		Famell		Digi-Key	732-5278-1-ND	Mouser		
	Jack 2.10mm	Power Barrel Conn	P3	6,94106E+11	RS-Components		Famell		Digi-Key	732-5930-ND	Mouser		
	MKDSN 1.5/4-5.	4-Pin, 5.08mm, 25	P4	MKDSN 1,5/4-5	RS-Components	290-1264	Famell		Digi-Key	277-1249-ND	Mouser		
	67068-7041	USB TYPE B, REC	P6	67068-7041	RS-Components	515-1989	Famell	2063	740 Digi-Key	WM3463-ND	Mouser		
1K	1%	Resistor, SMD, 06	R1, R10, R13, R16	0603R	RS-Components		Famell		Digi-Key		Mouser		
	27 1%	Resistor, SMD, 06	R2, R3	0603R	RS-Components		Famell		Digi-Key	RMCF0603FT27R0CT-ND	Mouser		
7K	1%	Resistor, SMD, 06	R4	0603R	RS-Components		Famell		Digi-Key		Mouser		
0K	1%	Resistor, SMD, 06	R5, R6, R9	0603R	RS-Components		Famell		Digi-Key		Mouser		
39K 47	1%	Resistor, SMD, 06	R8	0603R	RS-Components		Famell		Digi-Key		Mouser		
	70 1%	Resistor, SMD, 06	R11, R12	0603R	RS-Components		Famell		Digi-Key		Mouser		
25m	1%	25 mOhms ±1% 0.	R14, R18	1206R	RS-Components		Famell		Digi-Key	2019-UR73VD2BTTD25L0FCT-N	Mouser		
	FT234XD	IC USB SERIAL B	U1	DFN12 3X3	RS-Components	888-8748	Famell	2419	911 Digi-Key	768-1178-1-ND	Mouser		
	ATMEGA644PA	AVR AVR® ATme	U2	TQFP44	RS-Components		Famell		Digi-Key	ATMEGA644PA-AURCT-ND	Mouser		
	MAX3232IPWR	MAX3232 3-V to	U3	tssop16	RS-Components		Famell		Digi-Key	296-13100-1-ND	Mouser		
	LMR50410YFQD	Buck Switching Re	U5	sot23-6	RS-Components		Famell		Digi-Key	296-LMR50410YFQDBVRQ1CT-	Mouser		
	INA240A3PWR	INA240 High- and I	U7, U9	tssop8	RS-Components		Famell		Digi-Key	296-45090-1-ND	Mouser		
	IFX9201SGAUM	Half Bridge (2) Driv	U8, U10	PG-DSO-12-17	RS-Components		Famell		Digi-Key	IFX9201SGAUMA1CT-ND	Mouser		
	18.4320Hz	18.432MHz ±50ppr	X1	TSX-3225	RS-Components		Famell		Digi-Key	SER3687CT-ND	Mouser		