



Line #	Description	Designator	Quantity	Manufacturer	Manufacturer Part Number	Supplier 1	Supplier Part Number 1
	Arduino mini pro 5V	Mini Pro	1				
	CAPACITOR, European symbol	C3	1	KEMET		RSComponents	264-4416
	H-bridge driver for brush motors Source: http://www.rohm.com/products/data-book/motor/pdf/bd623x_series-e.pdf	IC1	1				
	Molded plastic, JEDEC SOD-123/Mini SMA Source: Comchip CGRM4001-G.pdf	D1	1	Diodes	BAV20W-7-F	RSComponents	751-3443
	Molded plastic, JEDEC SOD-123/Mini SMA Source: Comchip CGRM4001-G.pdf	D2	1	Diodes	BAV20W-7-F	RSComponents	751-3443
	Molded plastic, JEDEC SOD-123/Mini SMA Source: Comchip CGRM4001-G.pdf	D3	1	Diodes	BAV20W-7-F	RSComponents	751-3443
	Molded plastic, JEDEC SOD-123/Mini SMA Source: Comchip CGRM4001-G.pdf	D4	1	ON Semiconductor	MBR2H2005FT1G	RSComponents	842-7797
	Molex Connector for motor	U_MOT	1	Molex	53047-0210	RSComponents	279-9213
	Molex connector for position sensor	U_POT	1	Molex	53047-0310	RSComponents	319-1064
	Molex connector for push button	Molex	1	Molex	53014-0610	RSComponents	688-2643
	PhotoMOS GU SOP 1 Form A High Capacity, 60 V Load Voltage, 1.25 A Continuous Load Current, -40 to 85 degC, 4-Pin SOP, Tube, RoHS	IC3	1	Omron	G3VM-351GL	Farnell	2065737
	Positive VOLTAGE REGULATOR Source: http://cache.national.com/ds/LM/LM78L05.pdf http://www.fairchildsemi.com/ds/LM/LM7805.pdf	IC2	1	ST Microelectronic	L7805ACV	RSComponents	295-8508
	RELAY 1 x switch, 0.5 A/125 V AC, 1 A/24 V DC, Omron	K1	1	Omron	G5V-1-DC5	RSComponents	8411420
	RELAY 1 x switch, 0.5 A/125 V AC, 1 A/24 V DC, Omron	K2	1	Omron	G5V-1-DC5	RSComponents	8411420
	RELAY 1 x switch, 0.5 A/125 V AC, 1 A/24 V DC, Omron	K3	1	Omron	G5V-1-DC5	RSComponents	8411420
	RESISTOR, European symbol	R1	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R2	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R3	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R4	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R5	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R_FIN	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R_GND	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R_OPEN_UP	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R_OPTO	1	Panasonic	ERA6AEB7320V	Farnell	1810490
	RESISTOR, European symbol	R_RIN	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	RESISTOR, European symbol	R_TILT_UP	1	Bourns	CRT0805-FZ-1002ELF	RSComponents	740-9224
	Transistor	T1	1	Diodes	2N7002-7-F	RSComponents	7082396
	Transistor	T2	1	Diodes	2N7002-7-F	RSComponents	7082396
	Transistor	T3	1	Diodes	2N7002-7-F	RSComponents	7082396
	Transistor	T4	1	Diodes	2N7002-7-F	RSComponents	7082396
	WCAP-ATG8 Aluminum Electrolytic Capacitors, 5x11mm, 10 Vdc, 33 uF	C4	1	Nichicon	UMA1A330MDD	RSComponents	475-9172
	WCAP-ATG8 Aluminum Electrolytic Capacitors, 8x11.5mm, 16 Vdc, 330 uF	C1	1	CDE Illinois Capacitor	337CKS025M	Farnell	1203711
	WCAP-ATG8 Aluminum Electrolytic Capacitors, 8x11.5mm, 16 Vdc, 330 uF	C2	1	CDE Illinois Capacitor	337CKS025M	Farnell	1203711
	WCAP-CSGP Ceramic Capacitors, 0805, X7R, 10V, 1uF	C5	1	Kyocera AVX	08052C105KAT2A	RSComponents	1358615
	WCAP-CSGP Ceramic Capacitors, 0805, X7R, 10V, 1uF	C6	1	KEMET	C0805C103J5RACTU	RSComponents	8029917
	WCAP-CSGP Ceramic Capacitors, 0805, X7R, 10V, 1uF	C7	1	Kyocera AVX	08052C105KAT2A	RSComponents	1358615
	WR-MM Connector 6 pins	CON3	1	Würth	690207100672	RSComponents	771-8222
	WR-MM Connector 6 pins	K01	1	Würth	690207100672	RSComponents	771-8222