

Micro RC Receiver Bill of Material

Qty.	Schematic	Package	Name	Value	Function	Manufacturer	Datasheet or Product Link
1	U1	SOT23-5	MIC5205-3.3	3.3V	LDO 3.3V regulator	MICREL	http://ww1.microchip.com/downloads/en/DeviceDoc/mic5205.pdf
1	U2	TOFP32-08	ATMEGA328P U-TH		Microcontroller	MICROCHIP	http://www.atmel.com/images/Atmel-8271-8-bit-AVR-Microcontroller-ATmega48A-48PA-88A-88PA-168A-168PA-328-328P_datasheet_Complete.pdf
1	IC1	SMD PCB	NRF24L01+		Radio module (on a PCB)	NORDIC SEMI	https://www.sparkfun.com/datasheets/Components/SMD/nRF24L01Plus_Preliminary_Product_Specification_v1_0.pdf
1	IC2	SSOP24	TB6612FNG		2 Channel DC Motor Driver	TOSHIBA	https://www.sparkfun.com/datasheets/Robotics/TB6612FNG.pdf
1	Q1	SMT	CSTCC8M00G53-R0		8MHz Resonator	MURATA	https://www.distrelec.ch/Web/Downloads/_t/ds/cstcc_g_eng_tds.pdf
3	C1, C3, C4	EIA3216	T491A106K016AT	16VDC, 10uF, Tantalum	Voltage smoothing	KEMET	https://www.distrelec.ch/Web/Downloads/_t/ds/KEM_T2005_T491_eng_tds.pdf
3	C2, C5, C6	0805	C0805C104K5RACTU	50V, 100nF, Ceramic	Decoupling	KEMET	https://www.distrelec.ch/Web/Downloads/_t/ds/KEM_C1002_X7R_SMD_eng_tds.pdf
2	R1, R3	0805	CRCW080510K0FKEA	10kOhm, +/-1%	Reset Pullup, A7 Pulldown	Vishay	https://www.distrelec.ch/Web/Downloads/a_en/f11D-CRCW-e3_data_en.pdf
1	R2	0805	CRCW080520K0FKEA	20kOhm, +/-1%	A7 Pullup to VBAT	Vishay	
10	JP 1 - 10	0.1"	Pin Header	Male	Connectors	Generic	