ROTOCASTit – Bill of Materials

ELECTRONICS

PART	VALUE	DEVICE	PACKAGE	DESCRIPTION	PRICE
C1–C2	22pF	0612ZC225MAT2A	CAPC3216X178N	Capacitor 1206 x2	€ 0,10
C3	10uF	CAP1206	1206	Capacitor	€ 0,15
C4–C7	1uF	CAP1206	1206	Capacitor x2	€ 0,12
C5–C6	100nF	CAP1206	1206	Capacitor x2	€ 0,08
CRYSTAL	16Mhz	CSM–7X–DU	CSM–7X–DU	SMD CRYSTAL	€ 0,20
J1–J3		ED550–2	ED550–2	TERMINAL BLOCK 3.5MM 2POS PCB x2	€ 1,20
JP1–JP2		M031X09_NO_SILK	1X09_NO_SILK	Header strip (9 header)	€ 1,50
LED_13	YELLOW	LED1206	1206	Yellow LED	€ 0,05
LED_GREEN	GREEN	LED1206	1206	Green LED	€ 0,12
MICRO	ATMEGA328P–AU	ATMEGA48/88/168–AU	TQFP32–08	Microcontroller	€ 2,78
Q1	STP14NF10	STP14NF10	TO220	low gate charge Power MOSFET	€ 0,70
R1	10k	RESISTOR1206	1206	Resistor	€ 0,03
R2–R3	499	RESISTOR1206	1206	Resistor x2	€ 0,06
R4	100ohm	RESISTOR1206	1206	Resistor	€ 0,03
SWITCH		6MM_SWITCH6MM_SWITCH	6MM_SWITCH	OMRON SWITCH	€ 0,65

HARDWARE

PART	VALUE	DEVICE	DESCRIPTION	PRICE
DC Motor	12V, 3–20A	1686–MOPWR	3A unloaded, 7A loaded, 20A in stall	€ 21,00
MDF sheet	12mm, 930x720mm		Medium Density Fiber sheet	€ 11,00
Paint	500gr white		White Chalk Paint	€ 7,00
Bolts	M3–6–8		M6x20, M8x2, M3x8	€ 5,00
Bearing	608ZZ		Ball Bearing 608ZZ	€ 0,75
Balls	⌀ 14mm		14 mm Steel Balls x100	€ 8,50

ELECTRONICS TOTAL € 7,77

HARDWARE TOTAL € 53,25

TOTAL € 61,02