









PCB Bill of Materials - Automatic Handmock Swing V2.0

Designator	Comment	Footprint	Quantity	Description
C1, C4, C6, C10, C11, C12, C16	10uF	C0603		25V10uFX5R±20%0603 Multilayer Ceramic Capacitors MLCC - SMD/SMTROHS
C2, C3, C5, C7, C8, C9, C13, C14, C15, C17, C20	0.1uF	C0603	11	50V100nFX7R±10%0603 Multilayer Ceramic Capacitors MLCC - SMD/SMTROHS
C18, C19	22pF	C0603	2	50V22pFC0G±5%0603 Multilayer Ceramic Capacitors MLCC - SMD/SMTROHS
D1, D2, D3, D4	SS14	DO214AC	4	40V Single 1A 550mV@1A SWA(DO-214AC) Schottky Barrier Diodes (SBD) ROHS
D5, D6	LED-0603	LED0603-RD	2	-40°C~+85°C Red 0603 Light Emitting Diodes (LED) ROHS
Л	HDR1x8	HDR-TH_08P-P2.54-V-		3A Straight Square Pins 2.5mm 260° C@10S8P 6mm-40° C~+105° C 3mm 2.54mm Plugin Black Brass 1x8P Plugin, P=2.54mm Pin Headers
		M-NON-3D	'	ROHS
.घ., Ji1	Domino 2P	CONN-		2 1x2P20A-40°C~+105°C 300V Green 12~30 Straight pin 5.08mm 2.5 1 2 Plugin,P=5.08mm Screw terminal ROHS
		TH_P5.08_KF128L-	2	
		5.08-2P		
ß	HDR1x6	HDR-TH_06P-P2.54-V-	. 1	3A Straight Square Pins 2.5mm 260°C@10S6P6mm-40°C~+105°C 3mm 2.54mm Plugin Black Brass 1x6P Plugin,P=2.54mm Pin Headers
		M	'	ROHS
Б	HDR1x8	HDR-TH_08P-P2.54-V-		3A Straight Square Pins 2.5mm 260°C@10S8P6mm -40°C~+105°C 3mm 2.54mm Plugin Black Brass 1x8P Plugin,P=2.54mm Pin Headers ROHS
		M	'	
D, J10	HDR1x4	HDR-TH_04P-P2.54-V-		3A Straight Square Pins 2.5mm 260° C@10S4P6mm -40° C~+105° C3mm 2.54mm Plugin Black Brass 1x4P Plugin,P=2.54mm Pin Headers ROHS
		M		
LS1	MLT-8530	BUZ-SMD_4P-L8.5-	1	Externally Driven 80dB@5V,10cm Magnetic 2700Hz SMD,8.5x8.5mm Buzzers ROHS
		W8.5-P8.50-BR	'	
Q1	MMBT3904	SOT-23-3_L2.9-W1.3-	1	40V200mW100@10mA,1V200mANPN SOT-23 Bipolar Transistors - BJTROHS
		P1.90-LS2.4-BR	'	
RI	2mR	Shunt_Resistor_P10m	1	2mΩ Current Sensing Resistors ±40ppm/°C ±5% Plugin Current Sense Resistors/Shunt Resistors ROHS
		m		
R2, R3, R4, R5, R6, R7, R9, R10	10k	R0603		100mWThin Film Resistor ±25ppm/°C ±0.1% 10kΩ0603 Chip Resistor - Surface Mount ROHS
R8, R11, R12	1k	R0603	3	100mWThick Film Resistors 75V±100ppm/°C±1%1kΩ0603 Chip Resistor - Surface Mount ROHS
SW1	RST	KEY-SMD_4P-L4.2-	1	0.05A Brick nogging SPST - NO 180gf 12V SMD,3.2x4.2mm Tactile Switches ROHS
		W3.25-P2.15-TL		
U1	LM7805\$/TR	TO-263-3_L8.6-W10.2-		TO-263-3 5V1A Linear Voltage Regulators (LDO) ROHS
		P2.54-LS14.4-BR	'	
U2	INA219BIDR	SOIC-8_L5.0-W4.0-	1	SOIC-8 Current-Sensing Amplifiers ROHS
		P1.27-LS6.0-BL		
U3	L298N	MULTIWATT-15_L19.6-	1	Half Bridge 4.5V~7V MultiwAtt-15 Gate Drive ICs ROHS
		W5.0-P1.27-L	'	
U4	AMS1086CD-3.3	TO-252-2_L6.6-W6.1-	1	72dB@(120Hz) 1.5A Fixed 3.3V Positive electrode 15V TO-252-2(DPAK) Linear Voltage Regulators (LDO) ROHS
		P4.57-LS9.9-TL-CW		
U5	STM32L151C8T6	LQFP-48_L7.0-W7.0-	1	64KB1.8V~3.6V ARW-M310KB32MHz FLASH37 LQFP-48(7x7) Microcontroller Units (MCUs/MPUs/SOCs) ROHS
		P0.50-LS9.0-BL	1	
X1	8MHz	CRYSTAL-SMD_4P-	1	8MHz20pF±10ppm SMD3225-4P Crystals ROHS
		L3.2-W2.5-BL	ļ'	