



















Comment	Description	Designator	Footprint	LibRef	Quantity
	Multilayer Ceramic Capacitors MLCC -				
0.33uF	SMD/SMT 0805 0.33uF 16volts X7R 5%	C1	CAPACITOR 0805	Capacitor 0.33uF 0805	1
		C2, C7, C9, C10, C11,	2.27.07.07.0000		
	Multilayer Ceramic Capacitors MLCC -	C13, C14, C15, C16, C17, C18, C19, C20,			
0.1uF	SMD/SMT .1uF 50volts 10%	C23, C25, C28, C29, C30, C33, C34, C35	CAPACITOR 0805	Capacitor 0.1uF 0805	21
0.141	Cap Ceramic 1uF 25V	030, 033, 034, 033	CAI ACITOR 0003	capacitor 0.1dr 0003	21
1uF	X7R 10% SMD 0805 125C Blister T/R	C3, C5, C22, C24, C32	CAPACITOR 0805	Capacitor 1uF 0805	5
	MURATA - GRM21BR61H475KE51L -				
	CAP, 4.7µF, 50V, 10%,	C4, C6, C8, C21, C27,			
4.7uF	X5R, 0805 Multilayer Ceramic	C36	CAPACITOR 0805	Capacitor 4.7uF 0805	6
	Capacitors MLCC - SMD/SMT .01uF 50volts				
10nF	10%	C12	CAPACITOR 0805	Capacitor 10nF 0805	1
	Capacitores de cerâmica multicamada				
10uF	MLCC - SMD/SMT 0603 16Vdc 10uF X6S 20%	C26_C31	CAPACITOR 0603	Capacitor 10uF 0603	ء ا
	DIODE SCHOTTKY 40V	C26, C31			2
Schottky Diode	3A MINI2 WURTH ELEKTRONIK -	D1, D4, D5	SODFL3516X85N	Schottky Diode	3
	150060RS75000 - LED,	D2 D2 D4 D7 D0 D2			
Standard LEDs - SMD	0603, RED, 250MCD, 625NM	D2, D3, D6, D7, D8, D9, D10	Standard LEDs - SMD	Standard LEDs - SMD	7
	Conn Unshrouded Header HDR 5 POS				
Hondoro (1vE)	2.54mm Solder ST Thru-	CDAVACA O1	LIDDAYE	Hoodore (1vE)	1
Headers (1x5) BUTTON	Hole Bag Switch	GRAVACAO1 J1, J2, J3	HDR1X5 FSM4JSMA	Headers (1x5) Switch	1 3
	Audio 1.1Vp-p 3Vp-p				
	30mA 1.5Vp-p 85dBA 2400Hz to 2800Hz				
Buzzers	Through Hole Pin Bulk	LS1	Buzzer	Buzzers	1
Slide Switches	46202LRX- Headers & Wire	M1	Power_Switch	Slide Switches	1
Headers (1x2)	Housings HDR STRT SINGLE 2P	M2	BATT	Headers (1x2)	1
Headers (1x4)_BLUE	Header, 4-Pin	M3	HDR1X4	Headers (1x4)_BLUE	1
Headers (1x4)	Header, 4-Pin	M4, M6	HDR1X4	Headers (1x4)	2
	Headers & Wire Housings HDR STRT	·	· · · · · · · · · · · · · · · · · · ·	·	
Headers (1x2)ENC	SINGLE 2P	M5, M7	HDR1X2	Headers (1x2)ENC	2
MOSFET	MOSFET N-CH 30V 6.2A SOT23	Q1	SOT96P240X110-3N	MOSFET	1
200R	RES SMD 200 OHM 1% 1/8W 0805	R1, R3	6-0805_M	Resistor 200 0805	2
	RES SMD 100 OHM 1%				
100R	1/10W 0603	R2, R18, R19, R20, R21	0603	Resistor 100 0603	5
220	RES SMD 220 OHM 1% 1/8W 0805	R4, R5, R6, R7, R8, R9, R10, R25, R26, R27, R28	6-0805_M	Resistor 220 0805	11
	RES SMD 4.7K OHM 1%				<u>'</u>
4K7R	1/8W 0805 RES SMD 10K OHM 1%	R11, R13, R14, R15	6-0805_M	Resistor 4.7K 0805	4
10K	1/8W 0805	R12, R16, R23, R24	6-0805_M	Resistor 10k 0805	4
1k	RES SMD 1K OHM 1% 1/8W 0805	R17	6-0805_M	Resistor 1K 0805	1
	RES SMD 47K OHM 1%	R29, R30, R31, R32, R33, R34, R35, R36,			
47K	1/8W 0805	R37, R38, R39	6-0805_M	Resistor 47K 0805	11
Voltage Regulators 6V	IC REG LINEAR 6V 1.5A D2PAK	U1	Voltage Regulators 6V	Voltage Regulators 6V	1
Voltage Regulators 3.3V	IC REG LINEAR 3.3V 1.2A SOT223	U2	SOT230P700X180-4N	Voltage Regulators 3.3V	1
	IC REG LINEAR 5V 1.2A				
Voltage Regulators 5V	SOT223	U3, U21 U4, U5, U6, U7, U8, U9,	SOT230P700X180-4N	Voltage Regulators 5V	2
Optical Switches	SENSOR OPTO TRANS REFL SMD PHOTO	U10, U17, U18, U19, U20	QRE1113GR	Optical Switches	11
	IC USB FS SERIAL UART				
USB Interface	28-SSOP IC EEPROM 256KBIT	U11	SOP65P780X200-28N	USB Interface	1
EEPROM 256Kbit	2MHZ 8SOIC	U12	M95256-DRMN8TP/K	EEPROM 256Kbit	1
	MOLEX 67643-0910				
USB Connectors	USB, 2.0 TYPE A, RECEPTACLE, SMT	U13	USB Micro	USB Connectors	1
	MEMS GYROSCOPE 1-				
Gyroscope	AXIS 16QFN MCU 32-bit STM32	U14	GYROSCOPE	Gyroscope	1
	ARM Cortex M4 RISC 128KB Flash				
	1.8V/2.5V/3.3V 64-Pin		QFP50P1200X1200X160-		
ARM Microcontrollers	LQFP Tray DC Motor Driver 3V 24-	U15	64N	ARM Microcontrollers	1
Driver TB6612FNG	Pin SSOP T/R	U16	SOP65P760X160-24N	Driver TB6612FNG	1