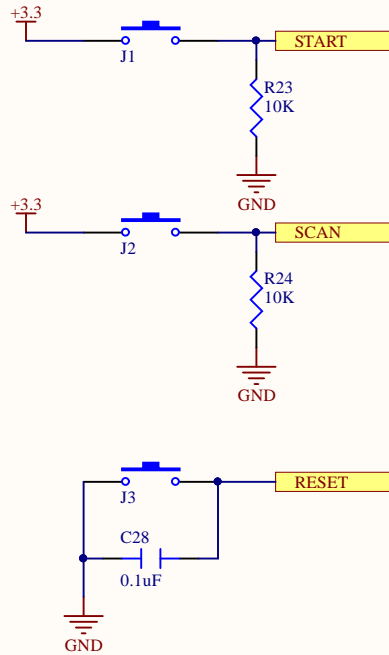
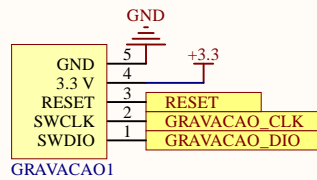


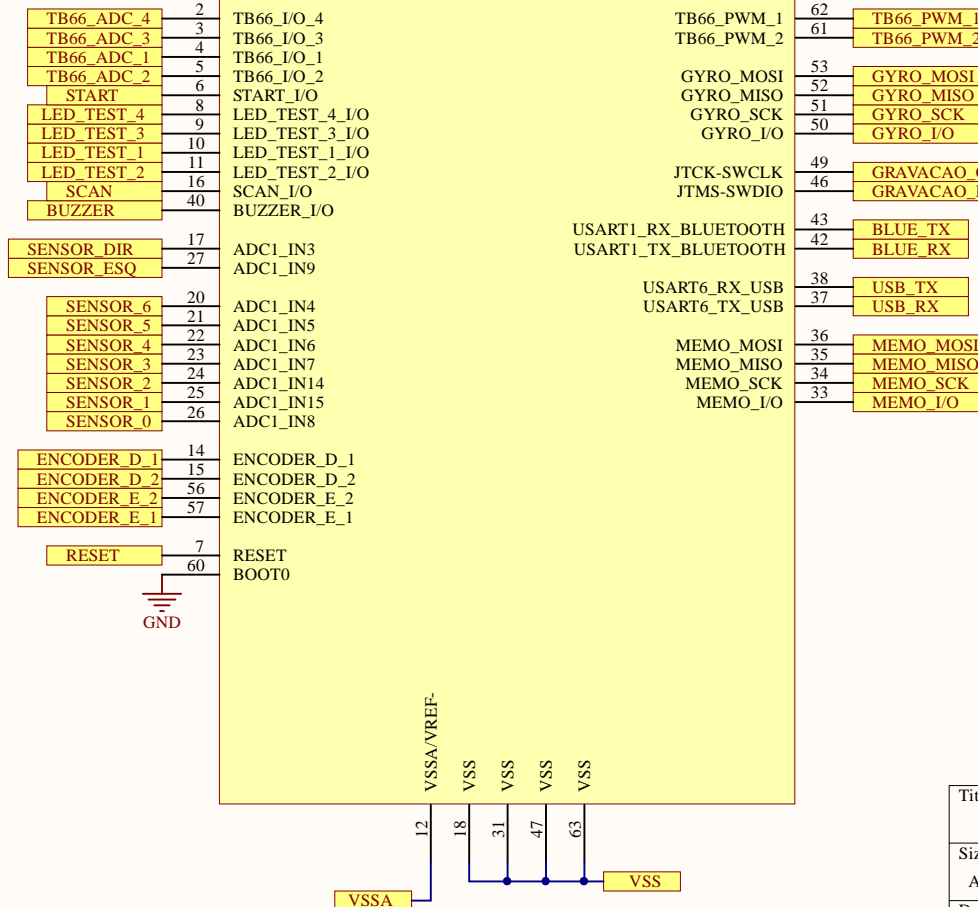
## BUTTONS



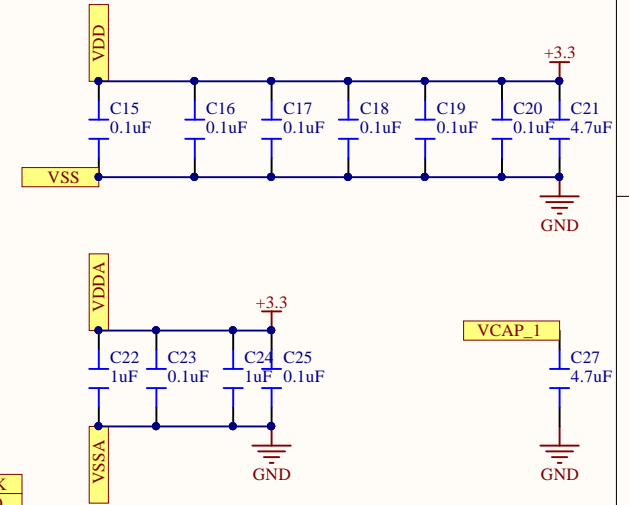
## GRAVACAO



## MICRO



## MICRO\_POWER



Title		
Size	Number	Revision
A4		
Date:	23/12/2019	Sheet of
File:	C:\Users\...\Micro.SchDoc	Drawn By:

Comment	Description	Designator	Footprint	LibRef	Quantity
0.33uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 0.33uF 16volts X7R 5%	C1	CAPACITOR 0805	Capacitor 0.33uF 0805	1
0.1uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT .1uF 50volts 10%	C2, C7, C9, C10, C11, C13, C14, C15, C16, C17, C18, C19, C20, C23, C25, C28, C29, C30, C33, C34, C35	CAPACITOR 0805	Capacitor 0.1uF 0805	21
1uF	Cap Ceramic 1uF 25V X7R 10% SMD 0805 125C Bistler T/R	C3, C5, C22, C24, C32	CAPACITOR 0805	Capacitor 1uF 0805	5
4.7uF	MURATA - GRM21BR61H475KE51L CAP, 4.7uF, 50V, 10%, X5R, 0805	C4, C6, C8, C21, C27, C36	CAPACITOR 0805	Capacitor 4.7uF 0805	6
10nF	Multilayer Ceramic Capacitors MLCC - SMD/SMT .01uF 50volts 10%	C12	CAPACITOR 0805	Capacitor 10nF 0805	1
10uF	Capacitores de cerámica multicamada MLCC - SMD/SMT 0603 16Vdc 10uF X6S 20%	C26, C31	CAPACITOR 0603	Capacitor 10uF 0603	2
Schottky Diode	DIODE SCHOTTKY 40V 3A MINI2	D1, D4, D5	SODFL3516X85N	Schottky Diode	3
Standard LEDs - SMD	WURTH ELEKTRONIK - 150060RS75000 - LED, 0603, RED, 250MCD, 625NM	D2, D3, D6, D7, D8, D9, D10	Standard LEDs - SMD	Standard LEDs - SMD	7
Headers (1x5)	Conn Unshrouded Header HDR 5 POS 2.54mm Solder ST Thru-Hole Bag	GRAVACAO1	HDR1X5	Headers (1x5)	1
BUTTON	Switch	J1, J2, J3	FSM4JSMA	Switch	3
Buzzers	Audio 1.1Vp-p 3Vp-p 30mA 1.5Vp-p 85dBA 2400Hz to 2800Hz Through Hole Pin Bulk	LS1	Buzzer	Buzzers	1
Slide Switches	46202LRX-	M1	Power_Switch	Slide Switches	1
Headers (1x2)	Headers & Wire 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 (1x2)ENC	Headers & Wire Housings HDR STRT 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
100R	RES SMD 100 OHM 1% 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
4K7R	RES SMD 4.7K OHM 1% 1/8W 0805	R11, R13, R14, R15	6-0805_M	Resistor 4.7K 0805	4
10K	RES SMD 10K OHM 1% 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
47K	RES SMD 47K OHM 1% 1/8W 0805	R29, R30, R31, R32, R33, R34, R35, R36, 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
Voltage Regulators 5V	IC REG LINEAR 5V 1.2A SOT223	U3, U21	SOT230P700X180-4N	Voltage Regulators 5V	2
Optical Switches	SENSOR OPTO TRANS REFL SMD PHOTO	U4, U5, U6, U7, U8, U9, U10, U17, U18, U19, U20	QRE1113GR	Optical Switches	11
USB Interface	IC USB FS SERIAL UART 28-SSOP	U11	SOP65P780X200-28N	USB Interface	1
EEPROM 256Kbit	IC EEPROM 256KBIT 2MHZ 8SOIC	U12	M95256-DRMN8TP/K	EEPROM 256Kbit	1
USB Connectors	MOLEX 67643-0910 USB, 2.0 TYPE A, RECEPTACLE, SMT	U13	USB Micro	USB Connectors	1
Gyroscope	MEMS GYROSCOPE 1-AXIS 16QFN	U14	GYROSCOPE	Gyroscope	1
ARM Microcontrollers	MCU 32-bit STM32 ARM Cortex M4 RISC 128KB Flash 1.8V/2.5V/3.3V 64-Pin LQFP Tray	U15	OFFP50P1200X1200X160-64N	ARM Microcontrollers	1
Driver TB6612FNG	DC Motor Driver 3V 24-Pin SSOP T/R	U16	SOP65P760X160-24N	Driver TB6612FNG	1