

COMPONENTI SCHEDA PSE RP2040 (SCHEDA SINGOLA)						
References	Value	Quantity	Footprint	Farnell code	Mouser code	Datasheet
BZ1	Buzzer	1	_PSE:MLT-8530			~
C1-C18, C24-C27, C29, C32, C35, C38, C40, C41, C43, C44, C46, C47	100n	32	Capacitor_SMD:C_0603_1608Metric			~
C19, C20, C36	2.2u	3	Capacitor_SMD:C_0603_1608Metric			~
C21	100n	1	Capacitor_SMD:C_0603_1608Metric			~
C22, C23	18p	2	Capacitor_SMD:C_0603_1608Metric			~
C28, C45	4.7u	2	Capacitor_SMD:C_0603_1608Metric			~
C30, C31	10u	2	Capacitor_SMD:C_0805_2012Metric			~
C33, C34	1u	2	Capacitor_SMD:C_0603_1608Metric			~
C37, C39	22u	2	Capacitor_SMD:C_0805_2012Metric			~
C42	4u7	1	Capacitor_SMD:C_0603_1608Metric			~
C48	1u 6V3	1	Capacitor_SMD:C_0603_1608Metric			~
D1-D8	WS2812B	8	LED_SMD:LED_WS2812B_PLCC4_5.0x5.0mm_P3.2mm			https://cdn-shop.adafruit.com/datasheets/WS2812B.pdf
D9, D14, D15	1N4148	3	Diode_SMD:D_SOD-123			https://assets.nexperia.com/documents/data-sheet/1N4148_1N4448.pdf
D10	LED_alive	1	LED_SMD:LED_0603_1608Metric			~
D11	TVS VBR 17V IBR=1mA	1	Diode_SMD:D_SMA		576-SMAJ15A	https://www.mouser.it/datasheet/2/240/Littelfuse_TV_S_Diode_SMAJ_Datasheet_pdf-540740.pdf
D12	S1B	1	Diode_SMD:D_SMA	2675037		https://www.farnell.com/datasheets/2863963.pdf
D13, D19	RBR1VWM30ATFTR	2	Diode_SMD:D_SOD-123	2311223		https://4donline.ihs.com/images/VipMasterIC/IC/NEXP/NEXP-S-A0003060256/NEXP-S-A0003059924-1.pdf?hkey=6D3A4C79FDBF58556ACFDE234799DDFO
D16	3V3_LED	1	LED_SMD:LED_0805_2012Metric			~
D17	PDZ3.3B.115	1	Diode_SMD:D_SOD-323_HandSoldering			~
D18	5V_LED	1	LED_SMD:LED_0805_2012Metric			~
F1	2016L05MR	1	Fuse:Fuse_1206_3216Metric	1652159		https://www.farnell.com/datasheets/2360307.pdf
FB1	FerriteBead	1	Capacitor_SMD:C_0805_2012Metric	1515661		https://it.farnell.com/murata/blm21pg221sn1d/ferrite-perlina-0805-0-045ohm/dp/1515661?st=blm21
J1	WS2812B	1	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical			~
J2	Conn_01x03	1	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical			~
J3	Vin	1	TerminalBlock:TerminalBlock_bornier-2_P5.08mm			~
J4	USB_B_Mini	1	_PSE:USB mini			~
J5	Vout 5V	1	TerminalBlock:TerminalBlock_bornier-2_P5.08mm			~
J6	I2C_3V3	1	Connector_JST:JST_XH_B4B-XH-A_1x04_P2.50mm_Vertical			~
J7	UART0_3V3	1	Connector_JST:JST_XH_B4B-XH-A_1x04_P2.50mm_Vertical			~
J8	SERVO_1	1	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical			~
J9	SERVO_2	1	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical			~
J10	SERVO_3	1	Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical			~
JP1	EXT_LEDs	1	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Vertical			~
L1	2.2u	1	_PSE:IHLP1212BZER2R2M11	2056527		https://www.farnell.com/datasheets/3707258.pdf
Q1	IRLML0060TRPBF	1	Package_TO_SOT_SMD:SOT-23			https://www.farnell.com/datasheets/2332193.pdf
Q2	PDTC114YT	1	Package_TO_SOT_SMD:SOT-23			
Q3, Q4	IRLML9301	2	Package_TO_SOT_SMD:SOT-23			https://www.infineon.com/dgdl/irlml9301pbf.pdf?fileId=5546d462533600a401535668e5e42640
R1, R3, R6, R7, R22	1k	5	Resistor_SMD:R_0603_1608Metric			~
R2	100k	1	Resistor_SMD:R_0603_1608Metric			~
R4, R17, R27	10K	3	Resistor_SMD:R_0603_1608Metric			~
R5, R15, R24, R29	10k	4	Resistor_SMD:R_0603_1608Metric			~
R8-R11	470k	4	Resistor_SMD:R_0603_1608Metric			~
R12, R28	470	2	Resistor_SMD:R_0603_1608Metric			~
R13, R14	27	2	Resistor_SMD:R_0603_1608Metric			~
R16, R23	510	2	Resistor_SMD:R_0603_1608Metric			~
R18	1.8k	1	Resistor_SMD:R_0603_1608Metric			~
R19	200	1	Resistor_SMD:R_0603_1608Metric			~
R20	150k	1	Resistor_SMD:R_0603_1608Metric			~
R21	56k	1	Resistor_SMD:R_0603_1608Metric			~
R25, R26	4.7k	2	Resistor_SMD:R_0603_1608Metric			~
R30	47k	1	Resistor_SMD:R_0603_1608Metric			~
SW1	RESET_SW	1	Button_Switch_SMD:SW_SPST_EVQP0			~
SW2	PROG_SW	1	Button_Switch_SMD:SW_SPST_EVQP0			~
SW3	SW_U	1	Button_Switch_SMD:SW_SPST_EVQP0			~
SW4	SW_L	1	Button_Switch_SMD:SW_SPST_EVQP0			~
SW5	SW_R	1	Button_Switch_SMD:SW_SPST_EVQP0			~
SW6	SW_D	1	Button_Switch_SMD:SW_SPST_EVQP0			~
SW7	Power_button	1	Button_Switch_SMD:SW_SPST_EVQP0			~
U1	RP2040	1	_PSE:QFN40P700X700X90-57N-D			
U2	W25Q16JVUSSQ	1	_MIA footprint:SOIC8-150mils			
U3	AT24C256	1	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm			
U4	oled_0.96" _128x64px	1	_PSE:128x64OLED			
U5	XC6705A331MR-G	1	Package_TO_SOT_SMD:SOT-23-5	4144775		https://www.farnell.com/datasheets/3902361.pdf
U6	TPS563201	1	Package_TO_SOT_SMD:SOT-23-6			http://www.ti.com/lit/ds/symlink/tps563200.pdf
U7	SAM-M8Q	1	_PSE:SAM_M8Q			https://www.u-blox.com/sites/default/files/SAM-M8Q_DataSheet_%28UBX-16012619%29.pdf
U8	MMA8451Q	1	_PSE:QFN-16			https://www.nxp.com/docs/en/data-sheet/MMA8451Q.pdf
U9	ESP-01	1	_PSE:ESP-01			
U10	TC1047A	1	Package_TO_SOT_SMD:SOT-23			http://ww1.microchip.com/downloads/en/DeviceDoc/21498D.pdf
Y1	12MHz	1	Crystal:Crystal_SMD_3225-4Pin_3.2x2.5mm_HandSoldering			~
COMPONENTI SCHEDA ENCODER MAGNETICO (SCHEDA SINGOLA)						
References	Value	Quantity	Footprint	Farnell code	Mouser code	Datasheet
C1	100n	1	Capacitor_SMD:C_0603_1608Metric			~
C2	10u	1	Connector_PinSocket_2.54mm:PinSocket_1x02_P2.54mm_Vertical			~
J1	Analog OUT	1	Connector_JST:JST_XH_B3B-XH-A_1x03_P2.50mm_Vertical			~
J2	I2C OUT	1	Connector_JST:JST_XH_B4B-XH-A_1x04_P2.50mm_Vertical			~
R1	10k	1	Resistor_SMD:R_0603_1608Metric			~
SW1	mode sel	1	Button_Switch_THT:SW_DIP_SPSTx02_Slide_9.78x7.26mm_W7.62mm_P2.54	2864305		https://www.farnell.com/datasheets/2803214.pdf
U1	AS5600	1	Package_SO:SOIC-8_3.9x4.9mm_P1.27mm			https://www.mouser.it/datasheet/2/588/AS5600_DS000365_5_00-1877365.pdf