

Pico Dual Stepper Parts List Rev 1.1

	Reference	Value	Qty	Description
1	C1,C4,C5,C9,C11	100n	5	10V 0805 Capacitor X7R
2	C2,C6,C12,C13	100n 50V	4	50V 0805 Capacitor X7R
3	C3,C7	100u 50V	2	Electrolytic Capacitor 8mm dia 3.5mm pitch
4	C8	47u 50V	1	Electrolytic Capacitor 6.3mm dia 2.5mm pitch
5	C10	22u	1	Electrolytic Capacitor 6.3mm dia 2.5mm pitch
6	D1	27V Zener	1	Zener DO-201AE package
7	F1,F2	3A	1	Fuse CC12H (only one is installed)
8	J1,J2	JST VH 4-pin	1	JST-VH connector (3.96mm pitch)
9	J3,J9	DC Jack 5.5mm	1	DC Power Jack (only one is installed)
10	J4,J5,J6,J7,J8,J10	SIL Pin Header	1	2.54mm 40-way Pin Header snapped into pieces
11	Q1	Si2301	1	SOT-23 MOSFET Si2301 or FDV304P or IRLML2246
12	R1,R2,R14,R15	0.2R 1W	4	WSL2512 Series Resistor
13	R3,R4,R5,R9,R13, R16,R17,R18,R19	10k	9	0805 Resistor
14	R6,R12	Do Not Fit	2	n/a
15	R7,R10	12k	2	0805 Resistor
16	R8,R11	8.2k	2	0805 Resistor
17	R20,R28,R29	100R	3	0805 Resistor
18	R21	100k	1	0805 Resistor
19	R22,R23	470R	2	0805 Resistor
20	R24,R25,R26,R27	1k	4	0805 Resistor
21	R30,R31	4.7k	2	0805 Resistor
22	SW1	Tact Switch	1	4x3mm Tact Switch (Reset)
23	U1	Pi Pico	1	Pi Pico or Pi Pico-W
24	U2	MCP23017_SS	1	SSOP28 Package I/O Expander
25	U3	TSR 1-2450	1	DC-DC Converter (7805 replacement)
26	U4,U5	TB67S581FNG	2	TSSOP-28 Toshiba Stepper Driver IC