

Number	Quantity	Board Designator	Description	Mouser Part Number	Other
1	2	C1, C2	0.01uF 50V 1206 SMD Capacitor	C1206C104K5RACTU	
2	4	R1, R2,R3,R4	2.2K Ohm 1206 SMD Resistor	652-CR1206FX-2201ELF	
3	2	R5, R6	300 Ohm 1206 SMD Resistor	652-CR1206JW-331ELF	
3	2	U1, U2	MCP23017SO SOIC-28	579-MCP23017-E/SO	
4	1	J1	IDC 1x20 Male Header		TaydaElectronics.com
5	2	J2, J3	IDC 1x2 Male Header		TaydaElectronics.com
6	6	J4, J5, J6, J7, J8, J9	Soldered Jumpers		Buss wire
		Encoders_1/2,			
		Encoders_3/4,			
7	3	Front_Panel	IDC 2x5 Male Box Header		TaydaElectronics.com
8	4	Encoders	PEC11R4220F-S0024	652-PEC11R-4220F-S24	

NOTE: The encoder type is a matter of personal preference. There are many possible choices here. Do your research.

