

Electron ULA Core Carrier Board BOM

Item	Size	Qty	Part	Comment
100R Resistor	0805	1	R1	
10K Resistor	0805	6	R2,R3,R4,R5,R9,R11	
2.26K Resistor	0805	1	R6	
3.09K Resistor	0805	1	R10	
1K Resistor	0805	2	R7, R8	
0.1uf Capacitor	0805	1	C1	
2.7nf Capacitor	0805	1	C2	
0.1uf Capacitor	0603	12	C3-C14	
BAT54 Diode	SOD-323	1	D1	<a href="https://www.digikey.co.uk/product-detail/en/on-semiconductor/BAT54HT1G/BAT54HT1GOSCT-ND/917809">https://www.digikey.co.uk/product-detail/en/on-semiconductor/BAT54HT1G/BAT54HT1GOSCT-ND/917809</a>
2x40 Female Headers	2.54mm	2		
2x6 Female Headers	2.54mm	1		
74LVC4245A	TSSOP24	8	Octal Transceiver	<a href="https://www.digikey.co.uk/product-detail/en/nexperia-usa-inc/74LVC4245APW-118/1727-4308-1-ND/2209918">https://www.digikey.co.uk/product-detail/en/nexperia-usa-inc/74LVC4245APW-118/1727-4308-1-ND/2209918</a>
74HCT125	TSSOP14	1	Quad Buffer	<a href="https://www.digikey.co.uk/product-detail/en/nexperia-usa-inc/74HCT125PW-118/1727-4087-1-ND/1965389">https://www.digikey.co.uk/product-detail/en/nexperia-usa-inc/74HCT125PW-118/1727-4087-1-ND/1965389</a>
MIC7221YM5-TR	SOT-23-5	1	Comparator	<a href="https://www.digikey.co.uk/product-detail/en/microchip-technology/MIC7221YM5-TR/576-2901-1-ND">https://www.digikey.co.uk/product-detail/en/microchip-technology/MIC7221YM5-TR/576-2901-1-ND</a>
1x32 - 2.54mm Low Profile Pin Headers		3	Pins for ULA socket	<a href="https://www.toby.co.uk/board-to-board-pcb-connectors/254mm-headers/bbl-samtec-254mm-low-profile-single-row-machined-header-fast-stock/BBL-132-T-E/">https://www.toby.co.uk/board-to-board-pcb-connectors/254mm-headers/bbl-samtec-254mm-low-profile-single-row-machined-header-fast-stock/BBL-132-T-E/</a>