Initial Bill of Materials - Electrical

Electrical Component Costs					
	Unit	Used		Cost (ukp)/Unit	Cost (ukp)
PCBs					
Line Following	each		1	6.50	6.50
Prototype	each		2	7.60	15.20
				Total	21.70
Passives					
Resistors	each		22	0.01	0.22
Capacitors	(quote)		2	-	1.40
				Total	1.62
Connectors					
D Plug/Socket	each		3	0.70	2.10
Molex Pins	each		3	0.40	1.20
Molex Body	each		3	0.30	0.90
Molex Crimps	each		15	0.02	0.30
				Total	4.50
Semis					
Phototransistor	each		1	0.43	0.43
HC 74	each		2	0.19	0.38

Components by Sensor					
Line Following					
LF PCB	1				
Optical	4				
Resistors	12				
3mm LEDs	4				
HC 74 Schmidtt	1				
PCF8574	1				
Colour Sensor					
5mm LED	1				
LDR	3				
Resistors	4				
Coloured filter	6	cm^2			

				1
555 timer	each	1	0.46	0.46
Binary counter	each	1	0.32	0.32
PCF8574	each	3	4.40	13.20
			Total	14.79
Sensors				
Optical (Line)	each	4	4.71	18.84
Distance	each	1	15.91	15.91
			Total	34.75
LEDs				
3mm (Low current)	each	4	0.09	0.36
5mm (Low current)	each	1	0.09	0.09
IR emitter	each	1	0.42	0.42
			Total	0.87
Other				
Optical filter	cm^2	6	0.20	1.2
			Total	1.2
			Grand Total	79.43
				ukp

1	
1	
1	
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2	
2	10nF, 22uF
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2	
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