

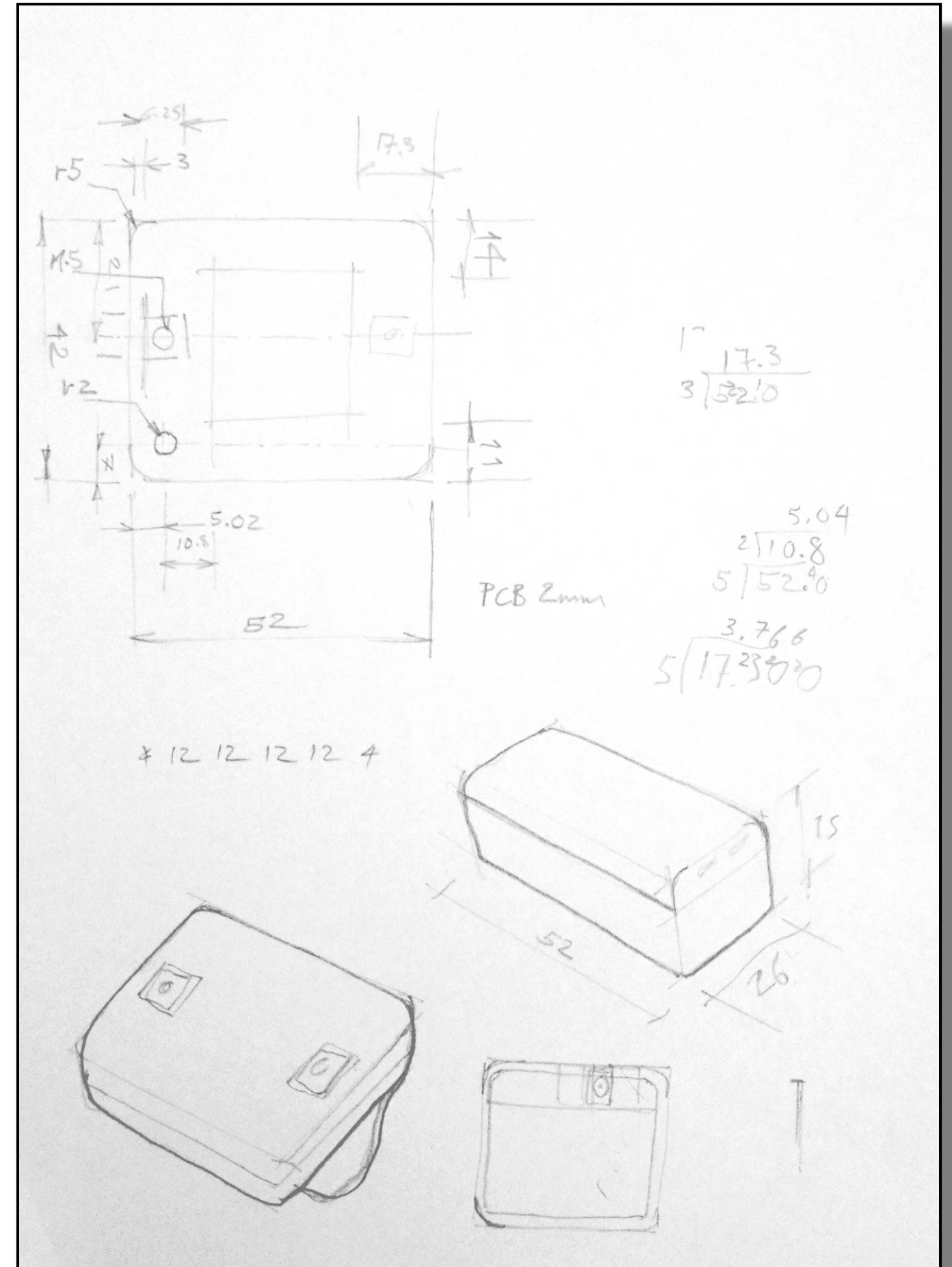
Shirley High School Design & Technology

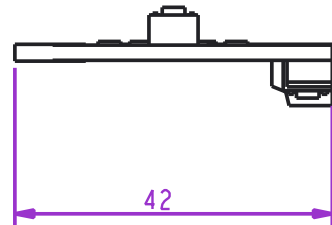
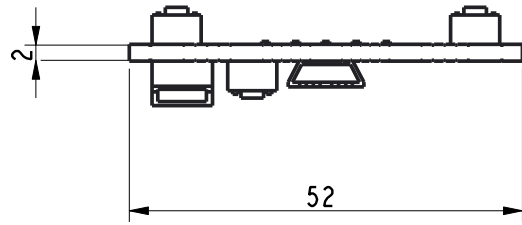
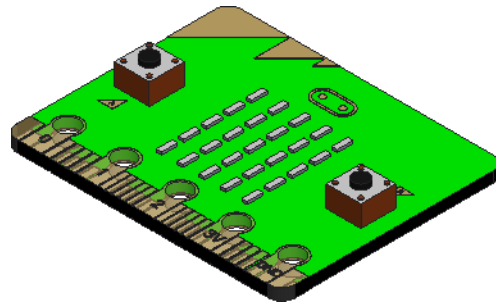
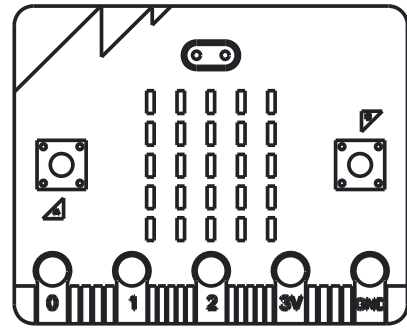
Design Intent:

Develop an enclosure that will hold the battery pack in place whilst allowing access to the reset, USB and power connector (removing need for On/Off switch).

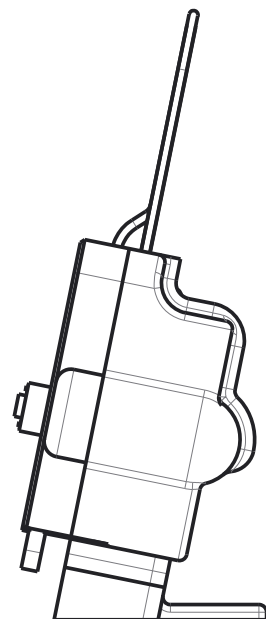
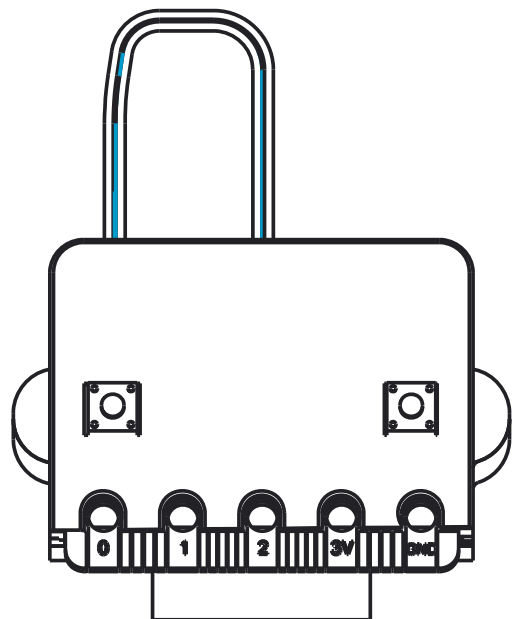
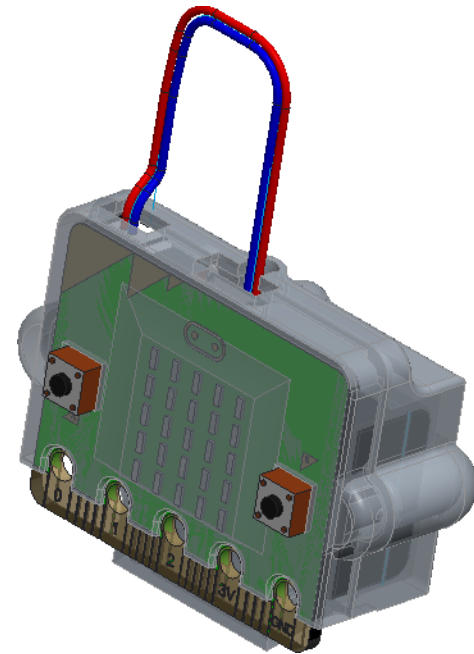
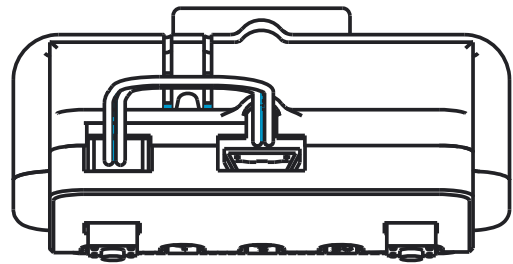
Photographs show arrangement that does not foul connectors or access to other inputs.

Paper sheet is an experiment to see how bright the LEDs are and if a diffusion screen will improve imaging.

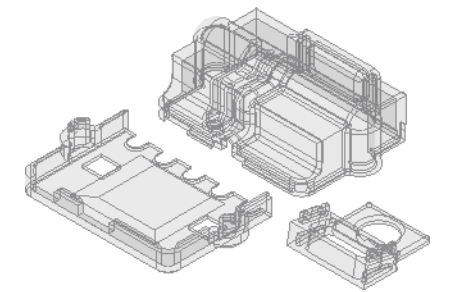
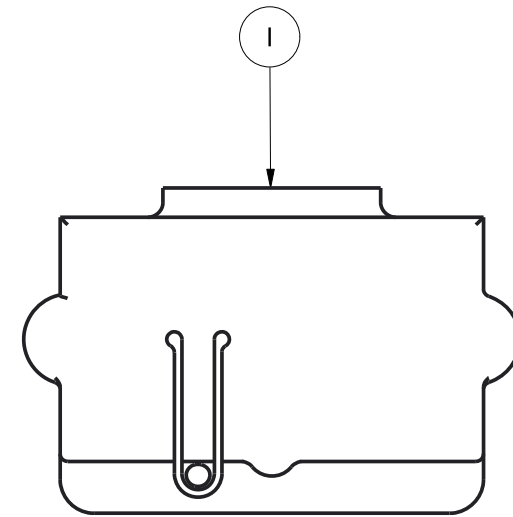




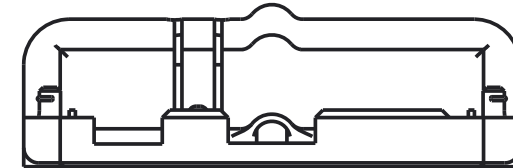
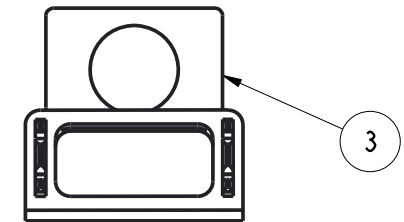
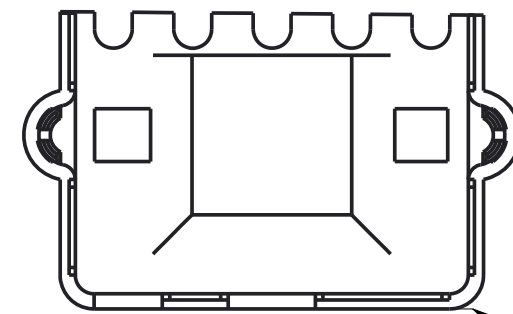
BBC Micro:Bit programming board without battery pack.



3D printed housing for Micro:Bit & battery pack



SCALE 1:2



3D Print file arrangement.

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	CASE-BOTTOM	1	case-bottom.prt	
2	CASE-TOP	1	case-top.prt	
3	FOOT	1	foot.prt	

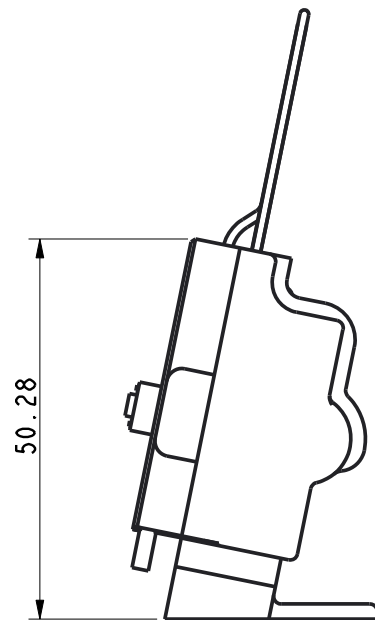
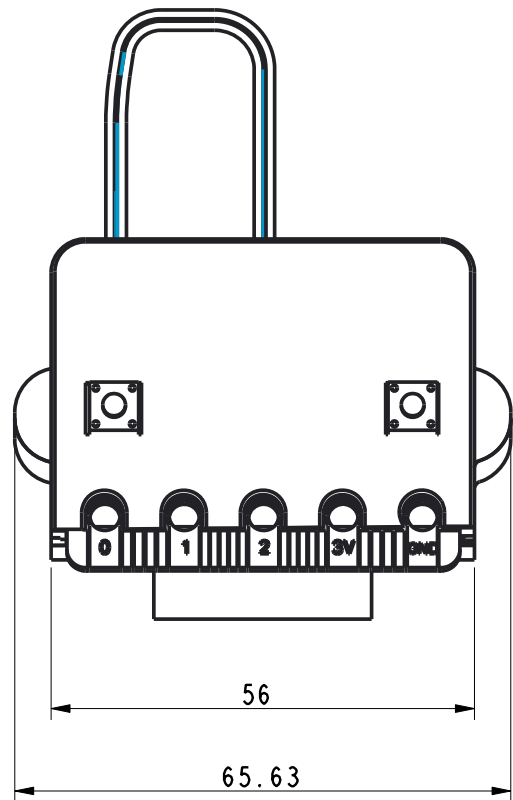
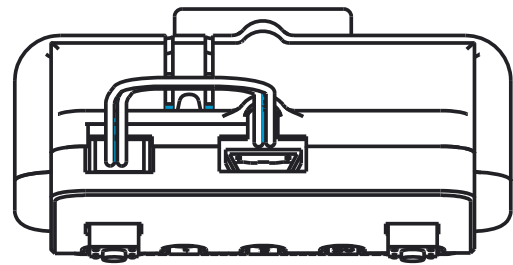
SHS Design & Technology Micro:Bit



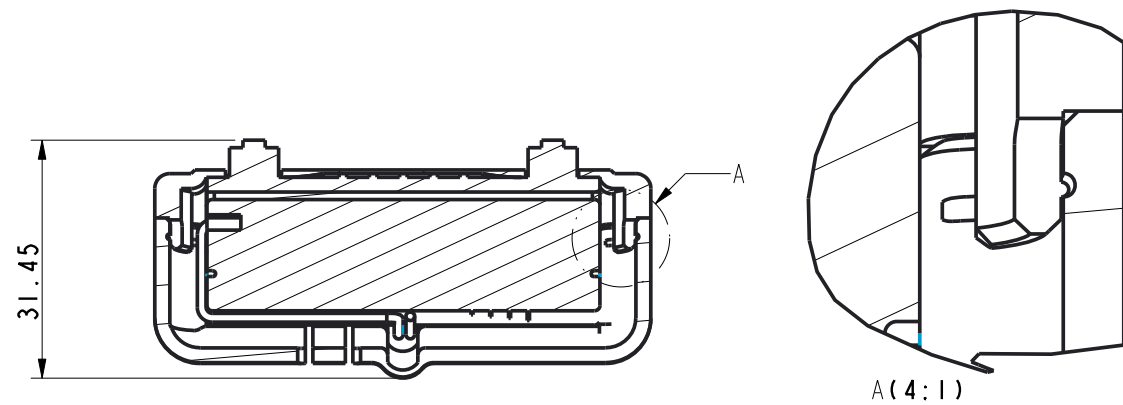
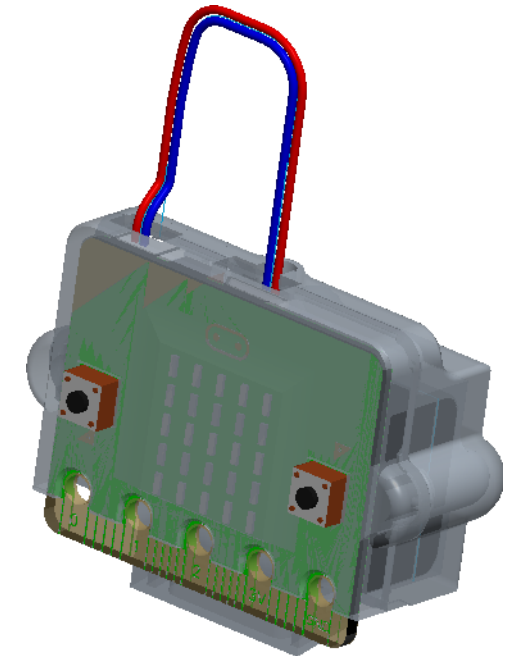
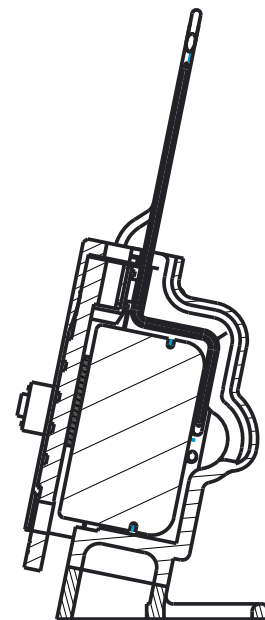
TITLE

microbit-case.drw

SIZE	CAGE CODE	DWG NO	REV
A3	1	1	1
SCALE: 1:1 @A3		UNIT WT: Kg[.2] Kg	SHEET 1 OF 5



SECTION XSEC0001-XSEC0001



SECTION XSEC0002-XSEC0002

ITEM NO	PART NUMBER	QTY	DESCRIPTION	NOTES
1	CASE-BOTTOM	1	case-bottom.prt	
2	CASE-TOP	1	case-top.prt	
3	FOOT	1	foot.prt	
4	MICROBITANDBATTERY	1	microbitandbattery.asm	

SHS Design & Technology Micro:Bit

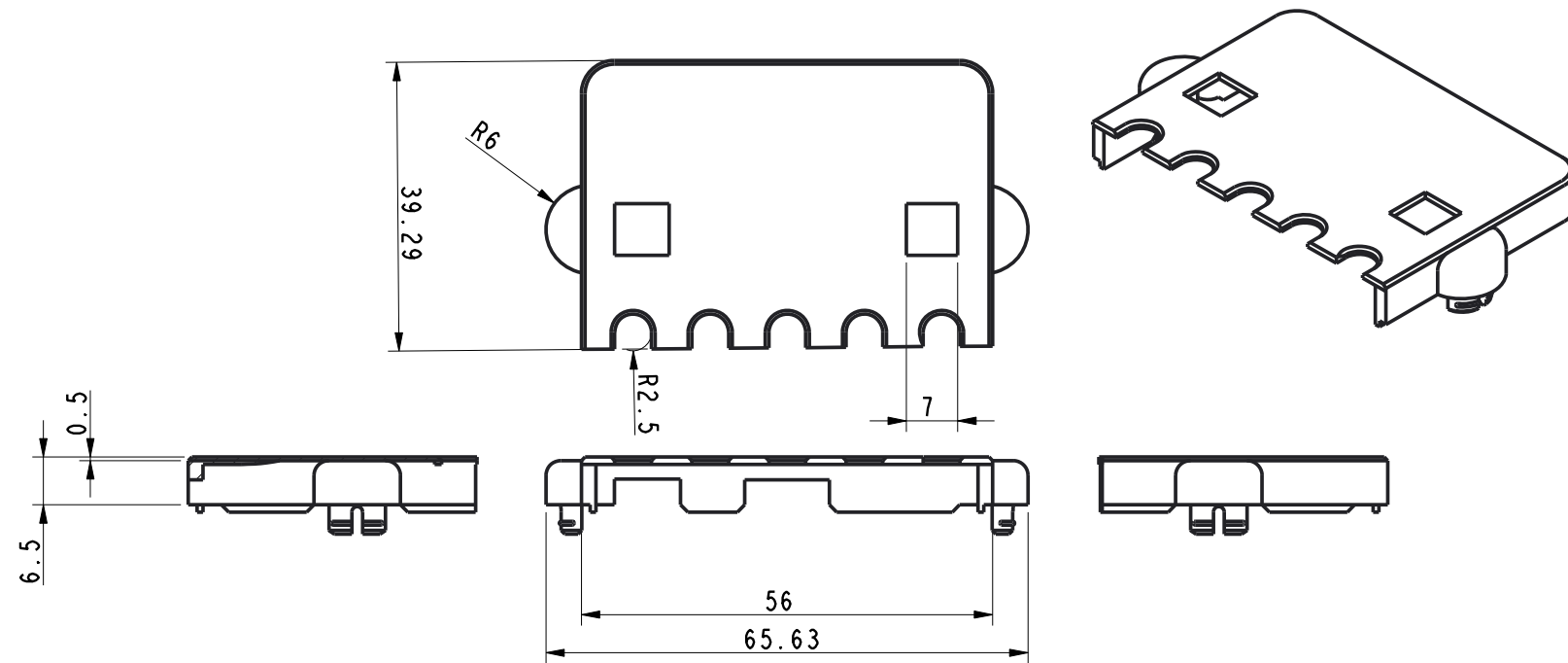


TITLE

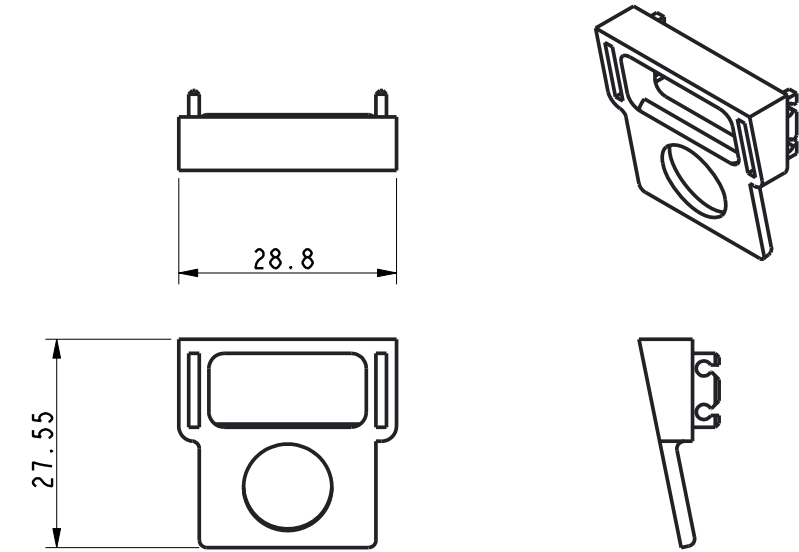
microbit-case.drw

SIZE	CAGE CODE	DWG NO	REV
A3	1	2	1
SCALE: 1:1 @A3		UNIT WT: [.2]	SHEET 2 OF 5

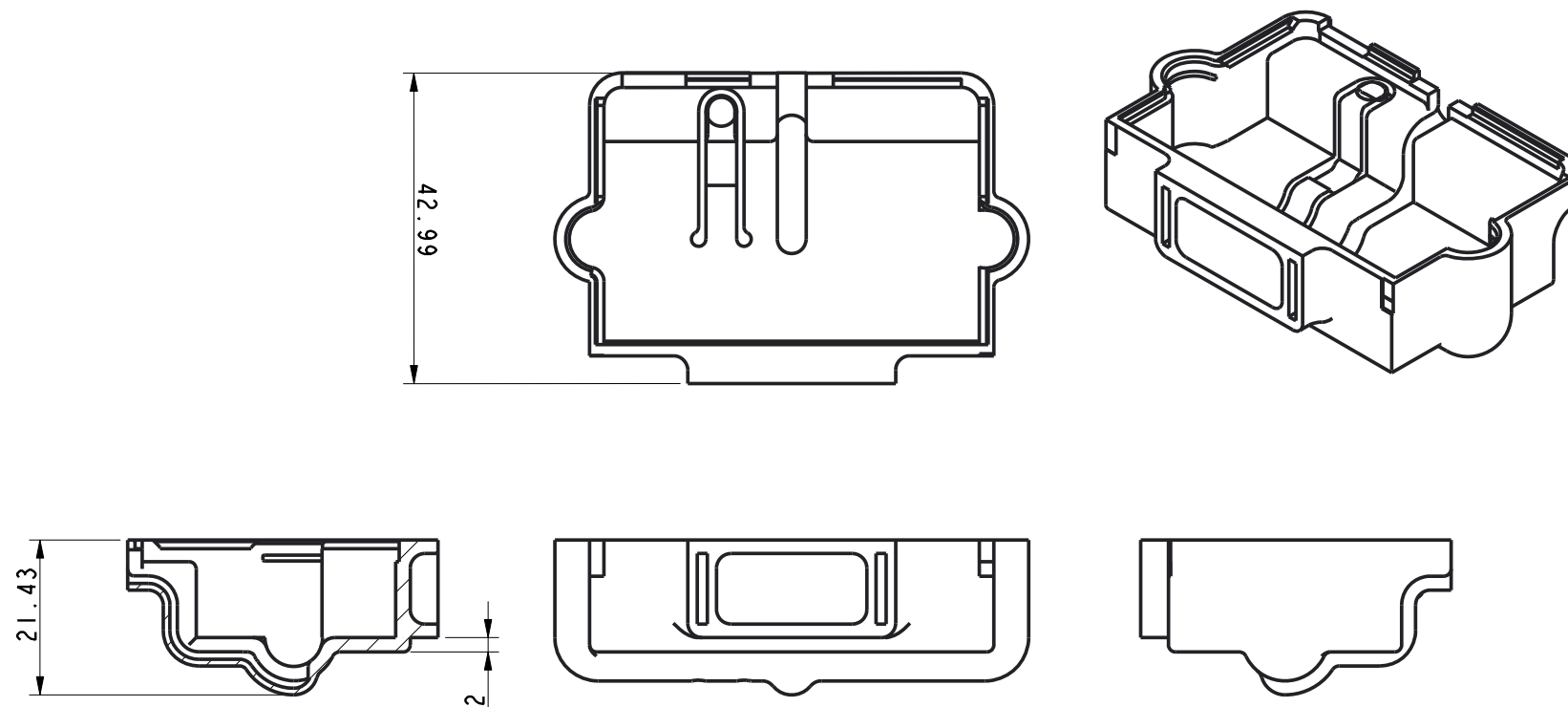
Top Case part



Foot part



Bottom case part



SECTION XSEC0001-XSEC0001

SHS Design & Technology Micro:Bit

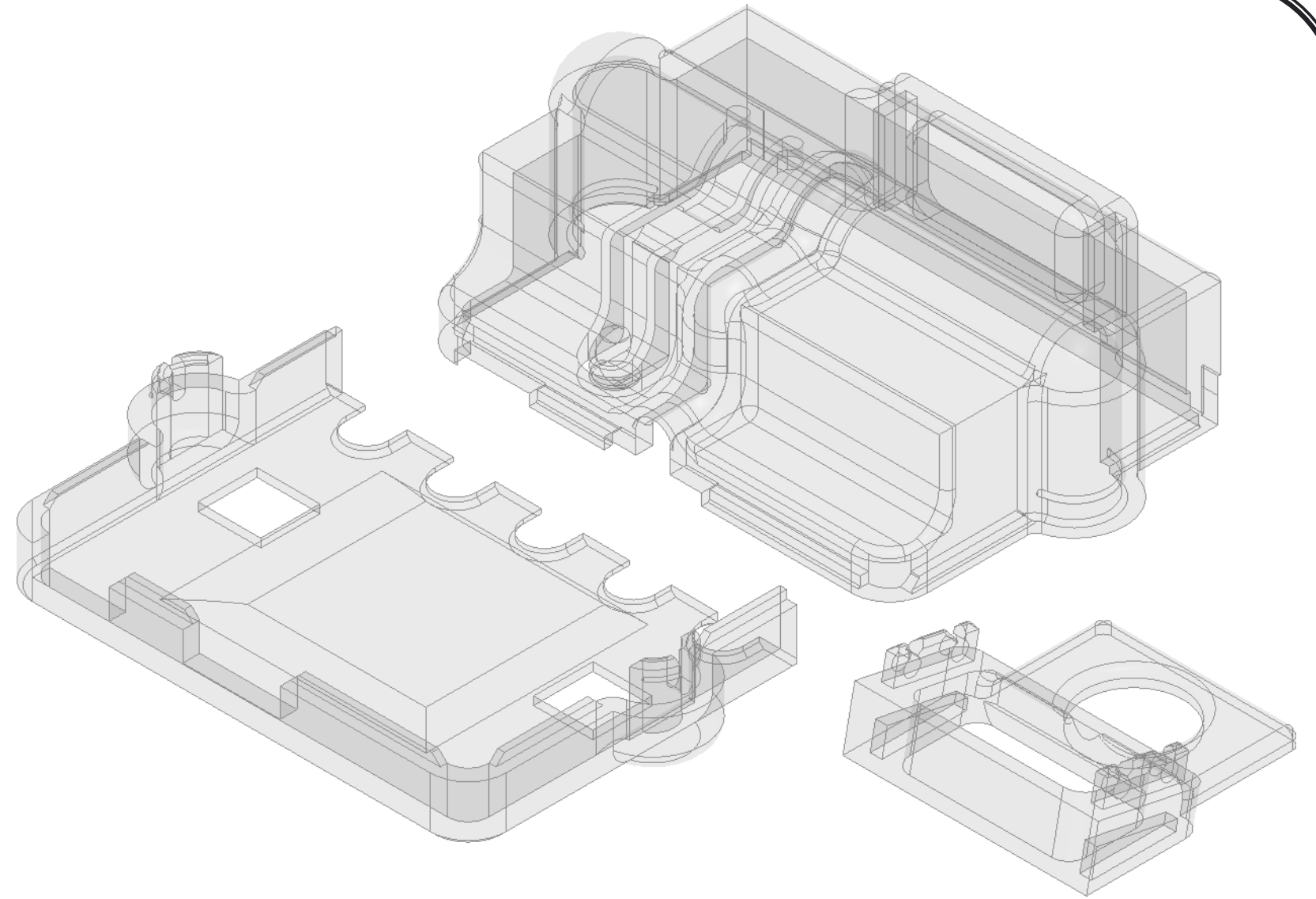


TITLE

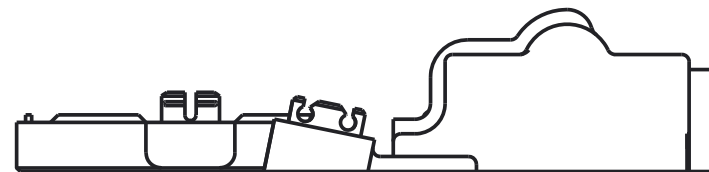
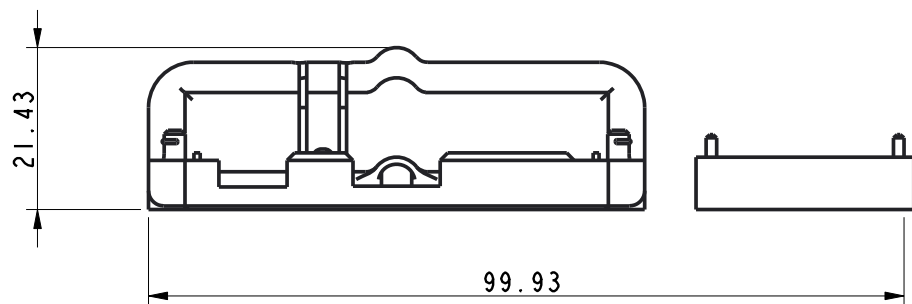
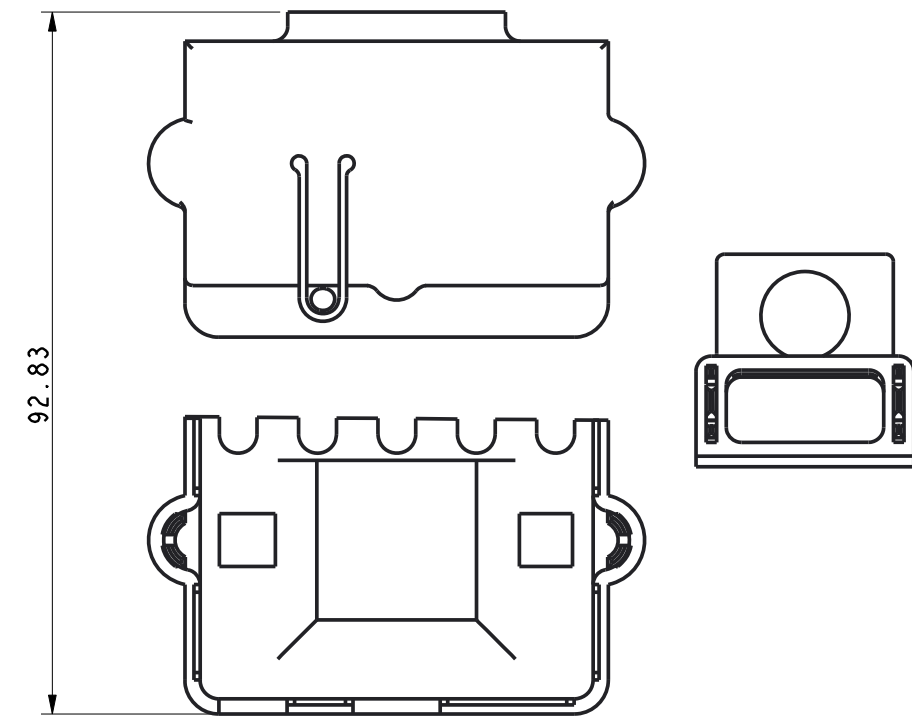
microbit-case.drw

SIZE	CAGE CODE	DWG NO	REV
A3	1	3	1
SCALE: 1:1 @A3		UNIT WT: kg[.2] N	SHEET 3 OF 5

Drawing to show all three elements in the .stl file ready for 3D printing. Parts have been arranged so that the front face, the mating face of the bottom case and the bottom of the foot part will print straight off the bed of the printer giving a smooth finish.



SCALE 2:1



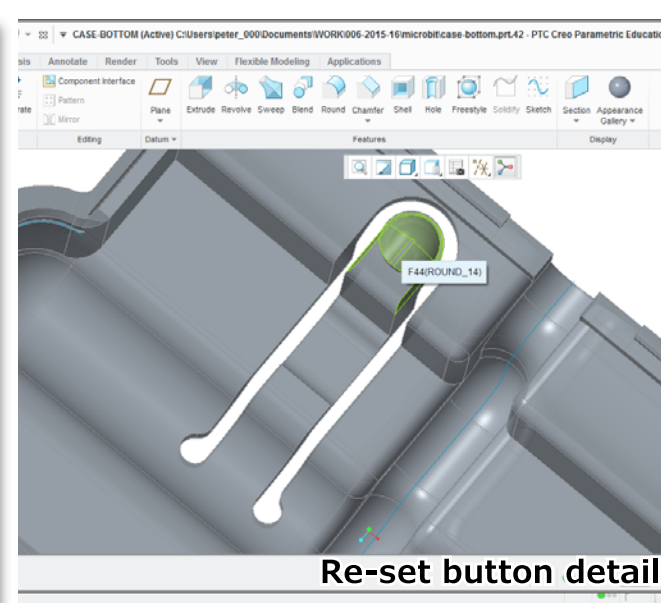
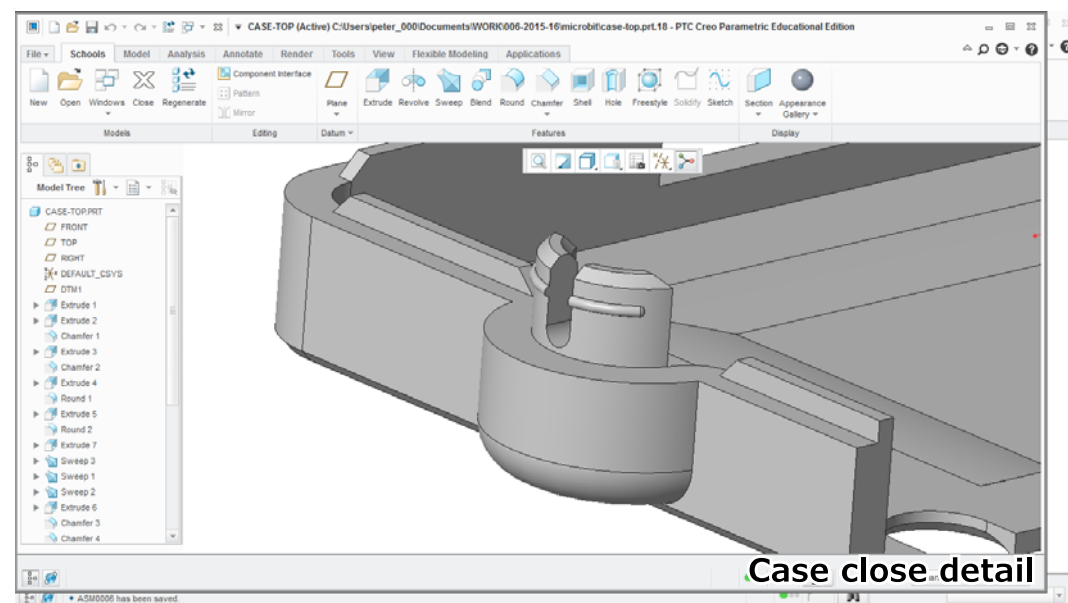
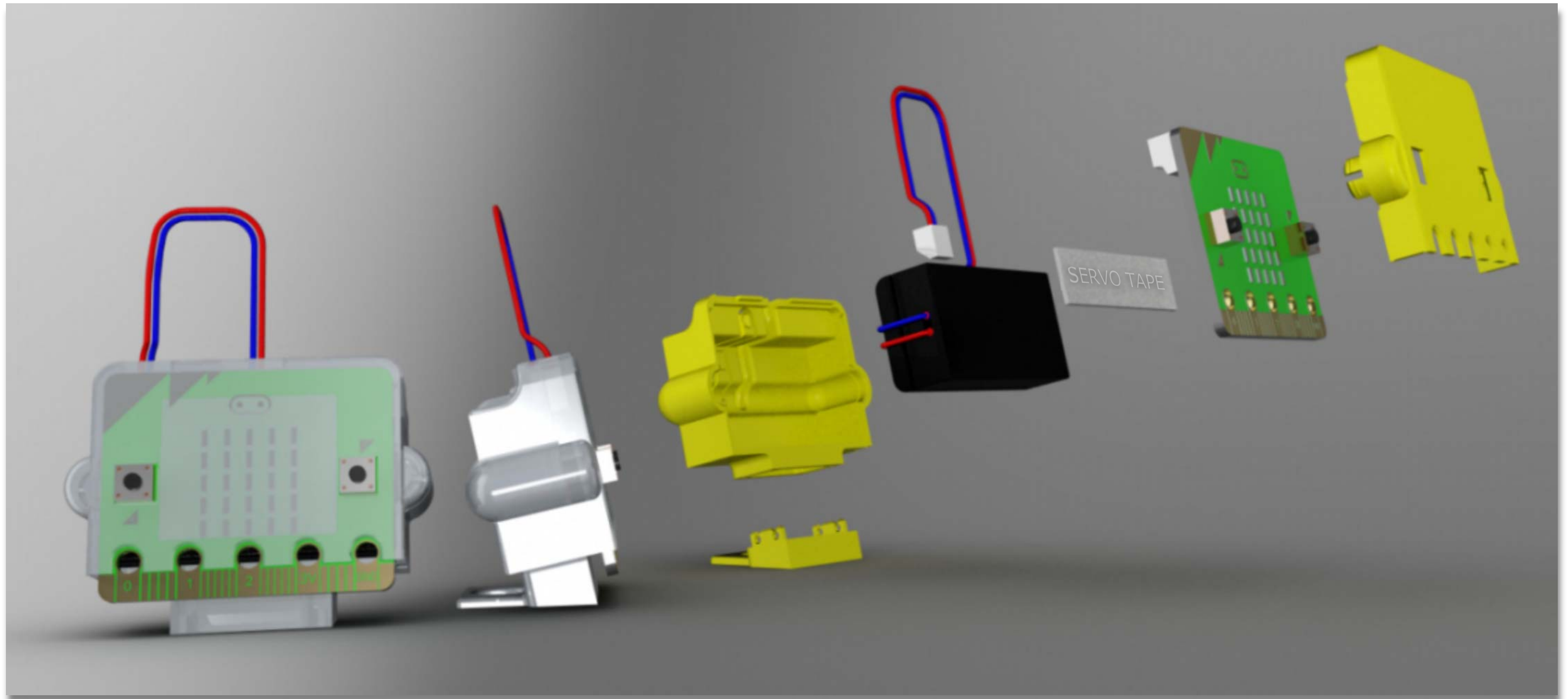
SHS Design & Technology Micro:Bit



TITLE

microbit-case.drw

SIZE	CAGE CODE	DWG NO	REV
A3	1	4	1
SCALE: 1:1 @A3		UNIT WT: Kg[.2] N	SHEET 4 OF 5



SHS Design & Technology Micro:Bit



TITLE

microbit-case.drw

SIZE	CAGE CODE	DWG NO	REV
A3	1	5	1
SCALE: 1:1 @A3		UNIT WT: [.2]	SHEET 5 OF 5