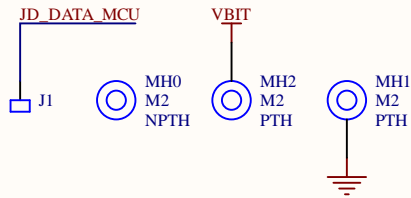


190 mA max current draw from micro:bit V2.

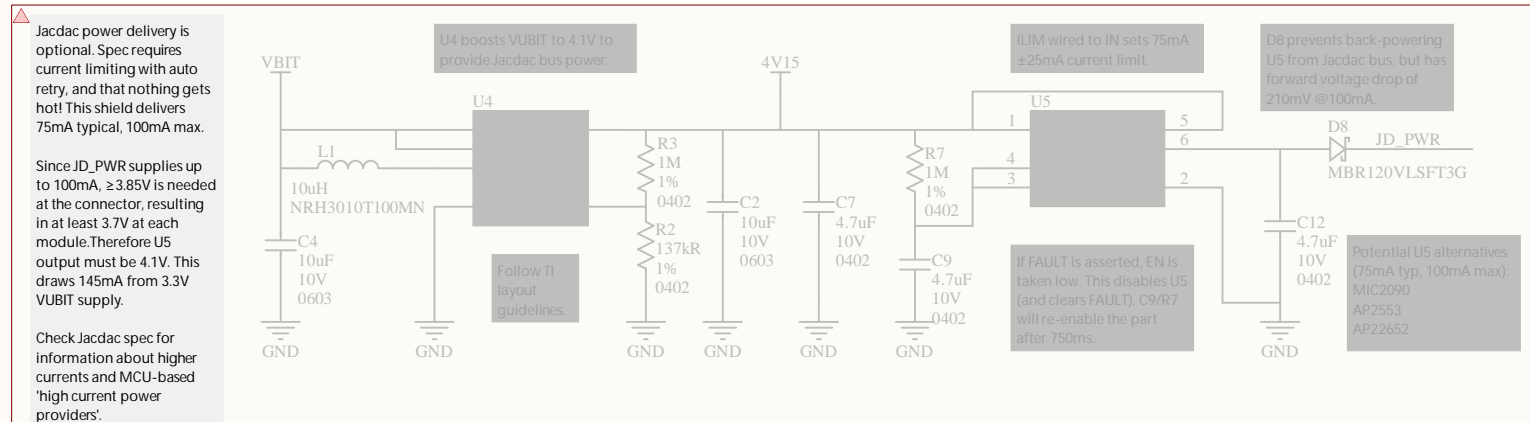
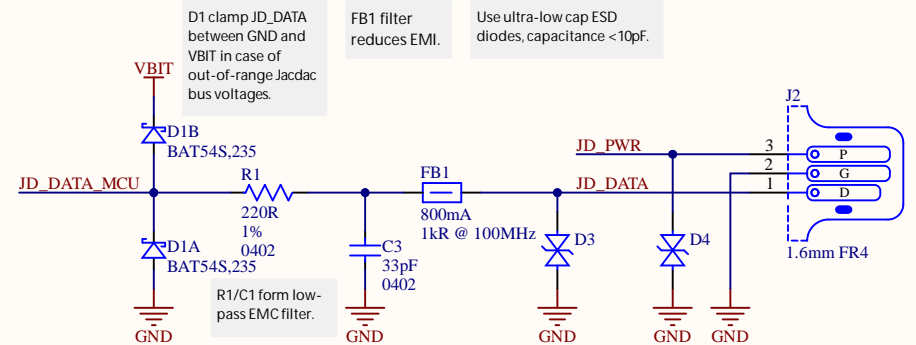


Jacdac (<https://aka.ms/jacdac>) is a new "plug and play" protocol for connecting microcontrollers and peripherals. Its flexible topology, dynamic discovery and power delivery provide a great user experience for makers and students.

Jacdac provides 1Mbps communications and power delivery. JD_DATA uses 3.3V logic, JD_PWR is nominally 5V.

Please refer to the Jacdac docs online at <https://aka.ms/jacdac> for the definitive and most up-to-date information.

This component is a power consumer.



Design notes

This information is provided "as-is". You bear the risk of using it. Some information relates to pre-released specification which may change without notice. Microsoft makes no warranties, express or implied, with respect to the information provided here.

When this PDF is viewed with Adobe Reader, clicking on components shows part numbers and other details.

Microsoft

PROJECT DESCRIPTION

SHEET DESCRIPTION
complete design

PROJECT FILENAME JacdacMicroBitBackPack 94.PrjPCB

PROJECT CODENAME JacdacMicroBitBackPack

LAST MODIFIED 08/04/2022

PAGE 1 OF 2

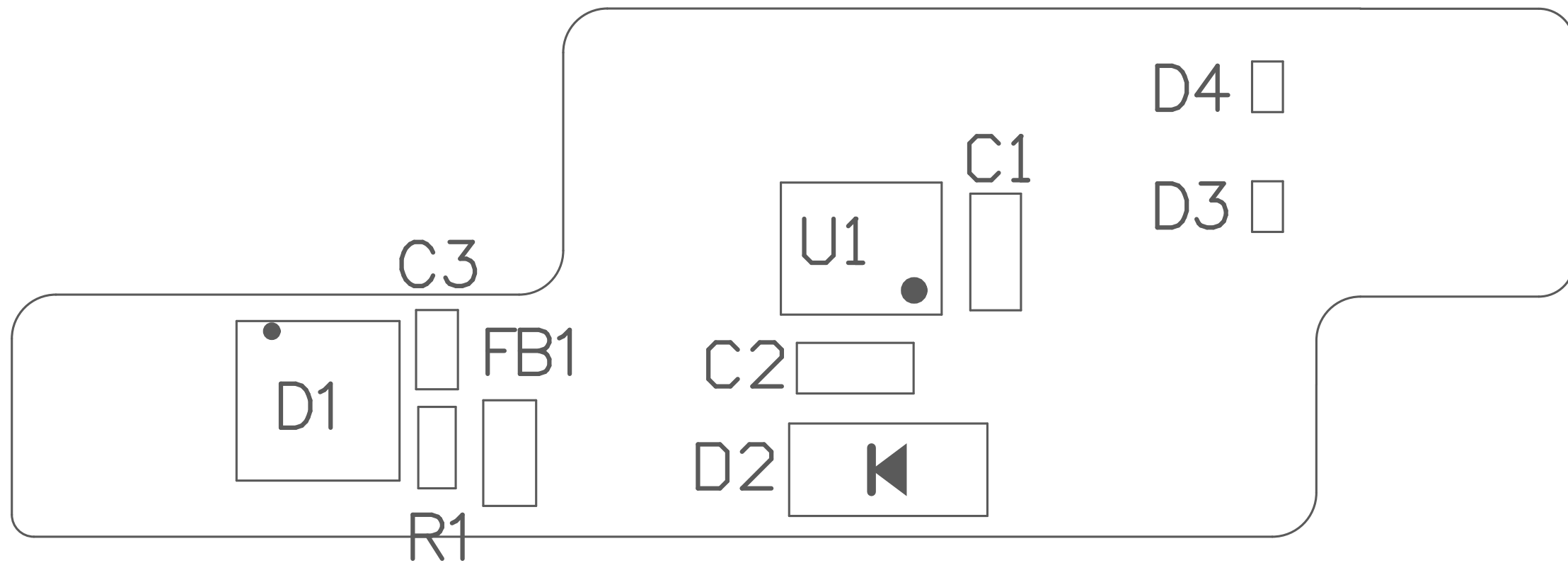
DRAWN BY Steve Hodges

REVISION 0.1

PCB ID 94-0.1

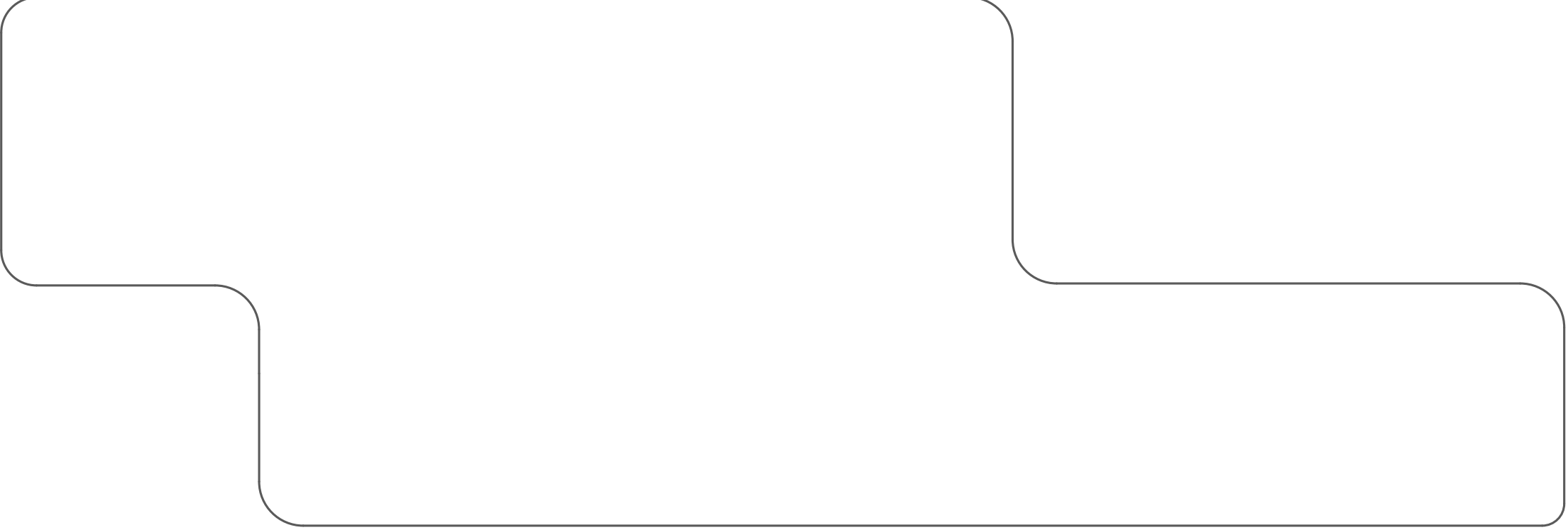
Top Assy

Board Outline



Board Outline

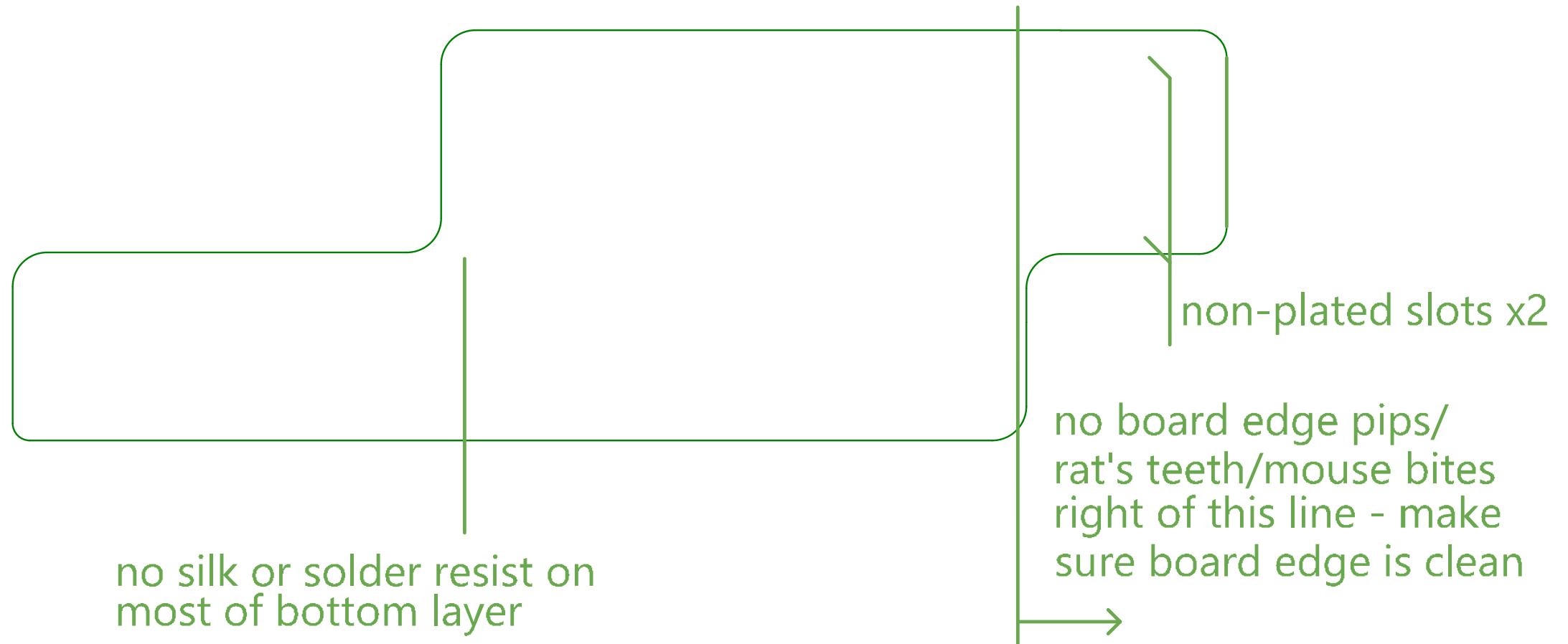
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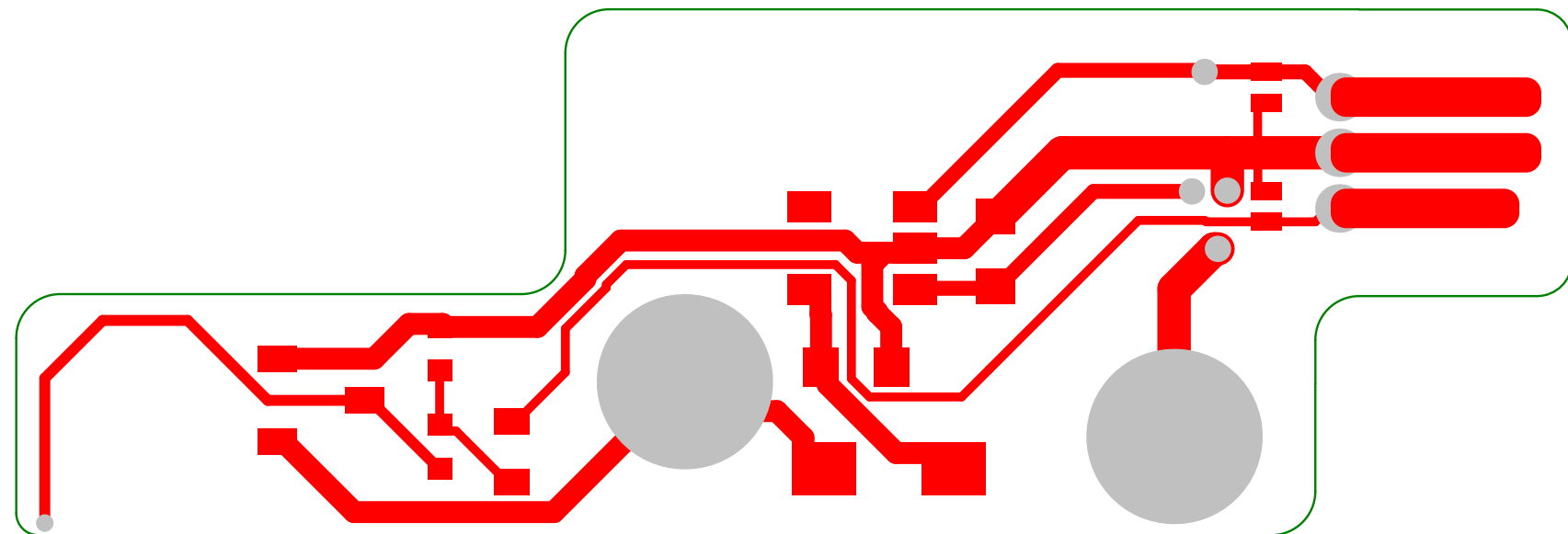


Fabrication Notes Board Outline



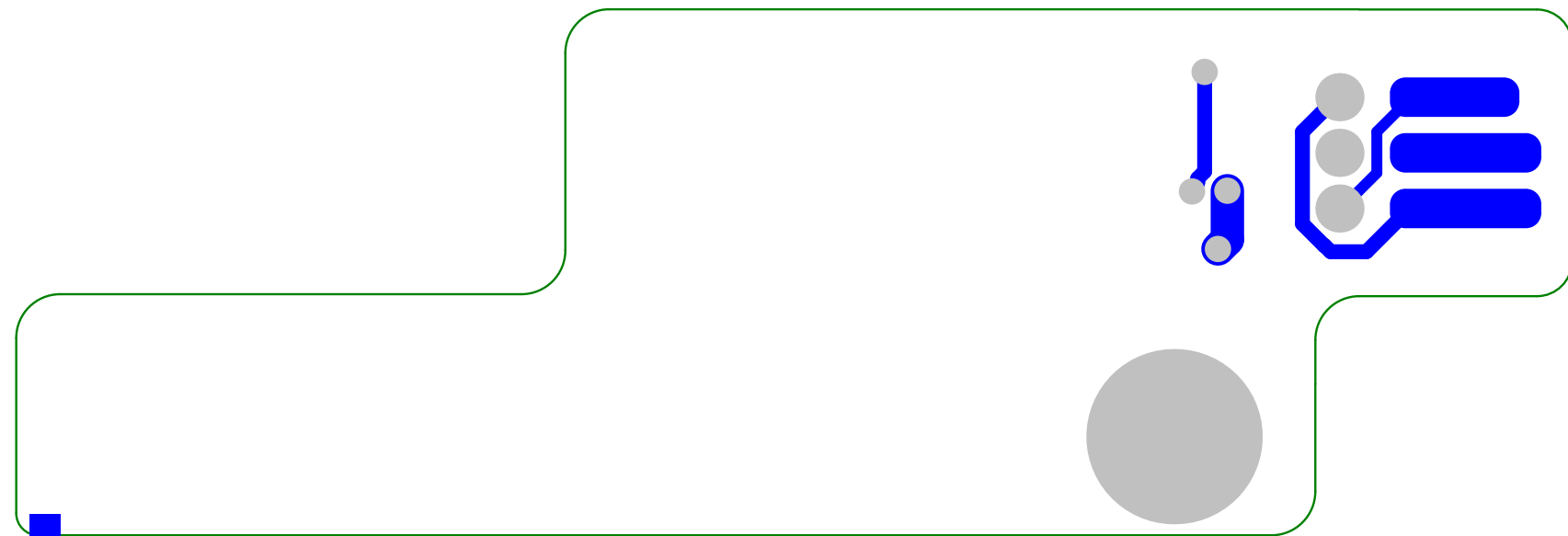
Top Layer

Board Outline



Bottom Layer

Board Outline



Board Outline

Top Overlay

Jacdac back pack
for micro:bit V2

3V



GND



Board Outline

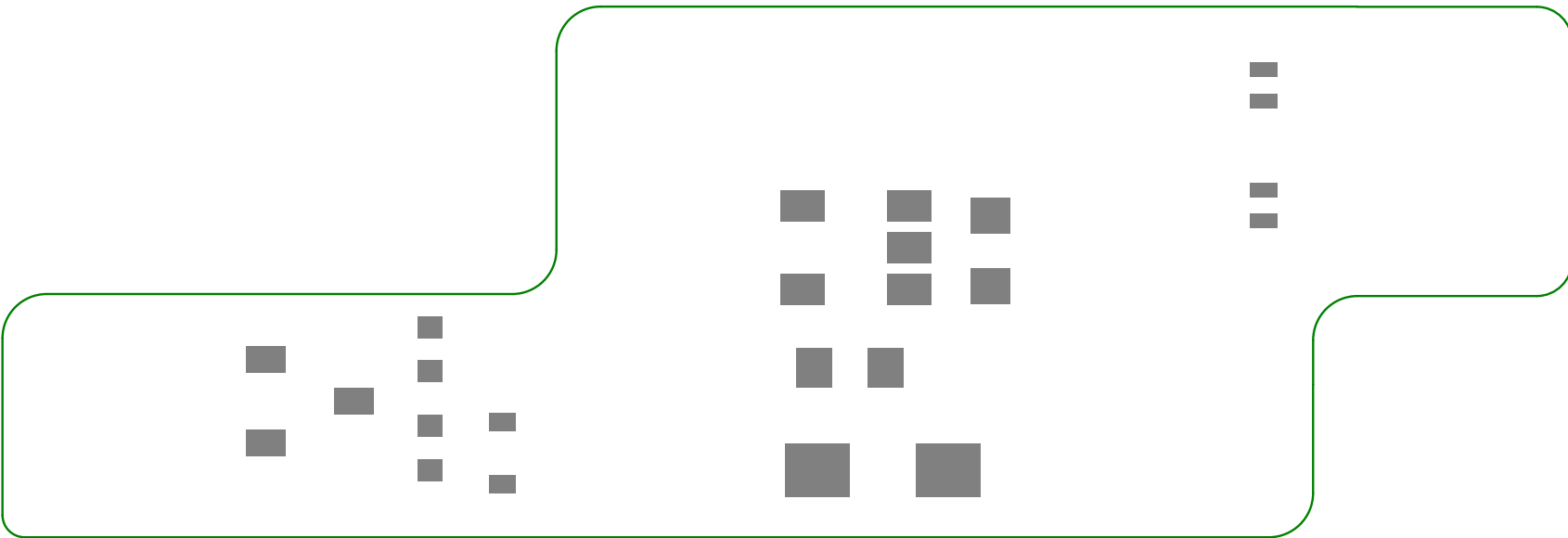
Bottom Overlay

1.0-49



Top Paste

Board Outline



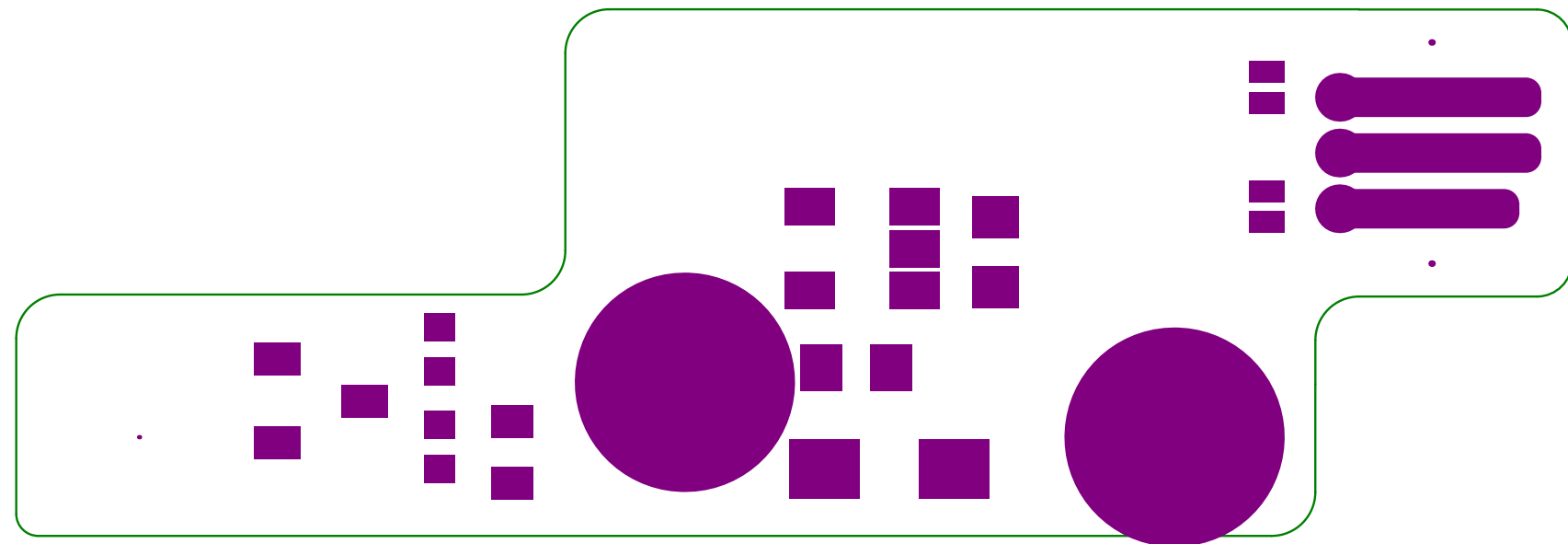
Bottom Paste

Board Outline



Board Outline

Top Solder (resist)

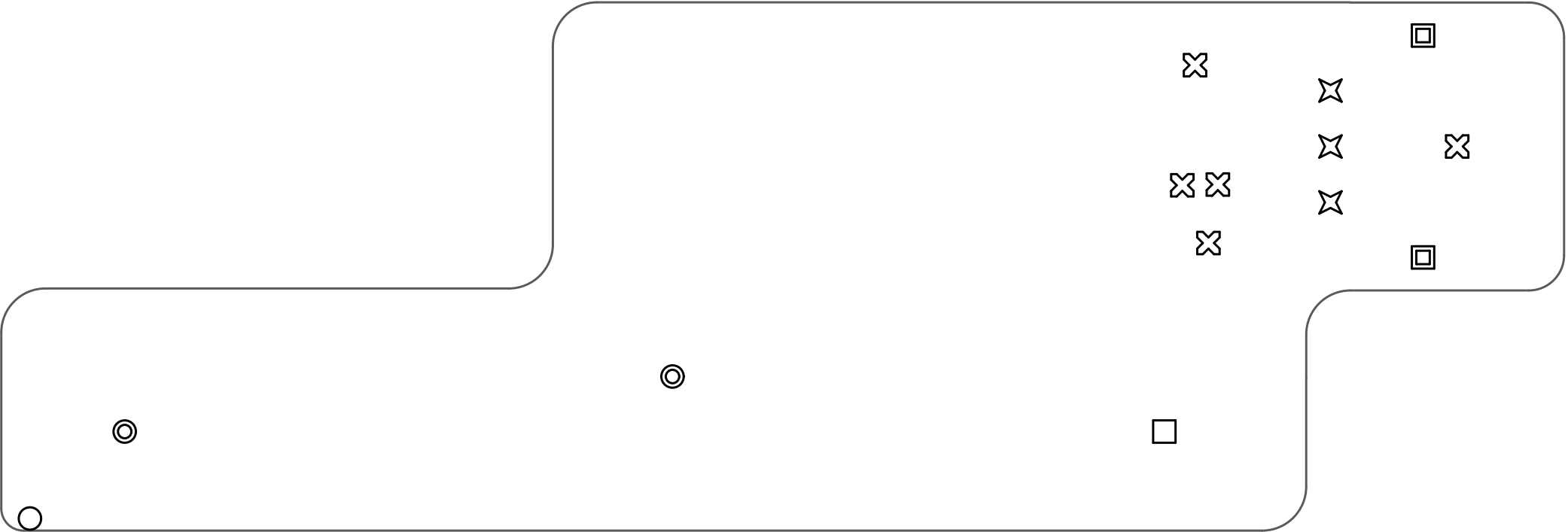


Board Outline

Bottom Solder (resist)



Board Outline



Compact Jaccac adapter for the BBC micro:bit V2

Currency USD

Best Supplier	Best Supplier PN	Best Unit Price	Best Subtotal	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1	Supplier 2	Supplier Part Number 2	Supplier Unit Price 2	Supplier Subtotal 2	Supplier 3	Supplier Part Number 3	Supplier Unit Price 3	Supplier Subtotal 3	Supplier 4	Supplier Part Number 4	Supplier Unit Price 4	Supplier Subtotal 4
Digi-Key	1276-1034-1-ND	0.01	16.50	Digi-Key	1276-1034-1-ND	0.01	16.50	Farnell	3013384	0.01	18.00	Rs	7664780	0.01	18.93	Mouser	187-CL10A105K08NNNC		
Digi-Key	1276-6515-1-ND	0.01	10.30	Digi-Key	1276-6515-1-ND	0.01	10.30	Mouser	187-CL05C330JB51	0.01	11.00	Future Elec	6022520						
Rs	1707990	0.04	35.00	Digi-Key	1727-1868-1-ND			Mouser	771-BAT54S235	0.04	39.69	Rs	1707990	0.04	35.00				
Mouser	863-MBR120VLSFT3G	0.13	134.00	Digi-Key	MBR120VLSFT3GOSCT-ND			Mouser	863-MBR120VLSFT3	0.13	134.00	Rs	1867479	0.14	139.08				
#N/A	#N/A																		
Digi-Key	445-8694-1-ND	0.03	25.00	Digi-Key	445-8694-1-ND	0.03	25.00	Mouser	810-MP-Z160BS102ATA00										
#N/A	#N/A																		
#N/A	#N/A			LCSC															
total			220.80																
unit price			0.22																