Project Documentation

Commodore CBM8296 Diagnostic: J4 Breakout Board

Project number: 210

Revision: 0

Date: 16.05.2023



Commodore CBM8296 Diagnostic: J4 Breakout Board Rev. 0 Module Description

Introduction

This J4 Breakout Board is part of the diagnostic clip set for the Commodore CBM8296. The original 324805-01 User Port Dongle incorporated a connector for the J4 memory expansion pin header. This breakout board has a 2x5 box connector, which attaches to the User Port Dongle (project number 209) of this diagnostic setup via a ribbon cable.

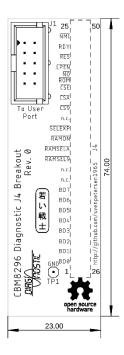


Figure 1: Dimensions of the J4 Breakout Board

TP1 is an optional test point, that could serve as a GND connection for measurements.

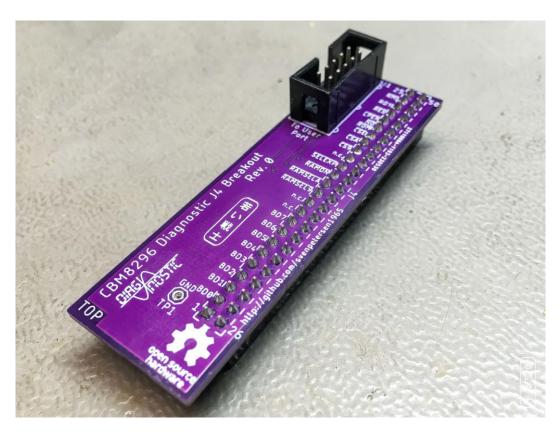


Figure 2: Top side of the J4 breakout boards



Figure 3: Bottom side of the J4 breakout board

Connections

Connection	Signals
B - M	CA1 - CB2
C - J4.13	PAO - RAMSELA
D - J4.14	PA1 - RAMON
E - J4.12	PA2 - RAMSEL9

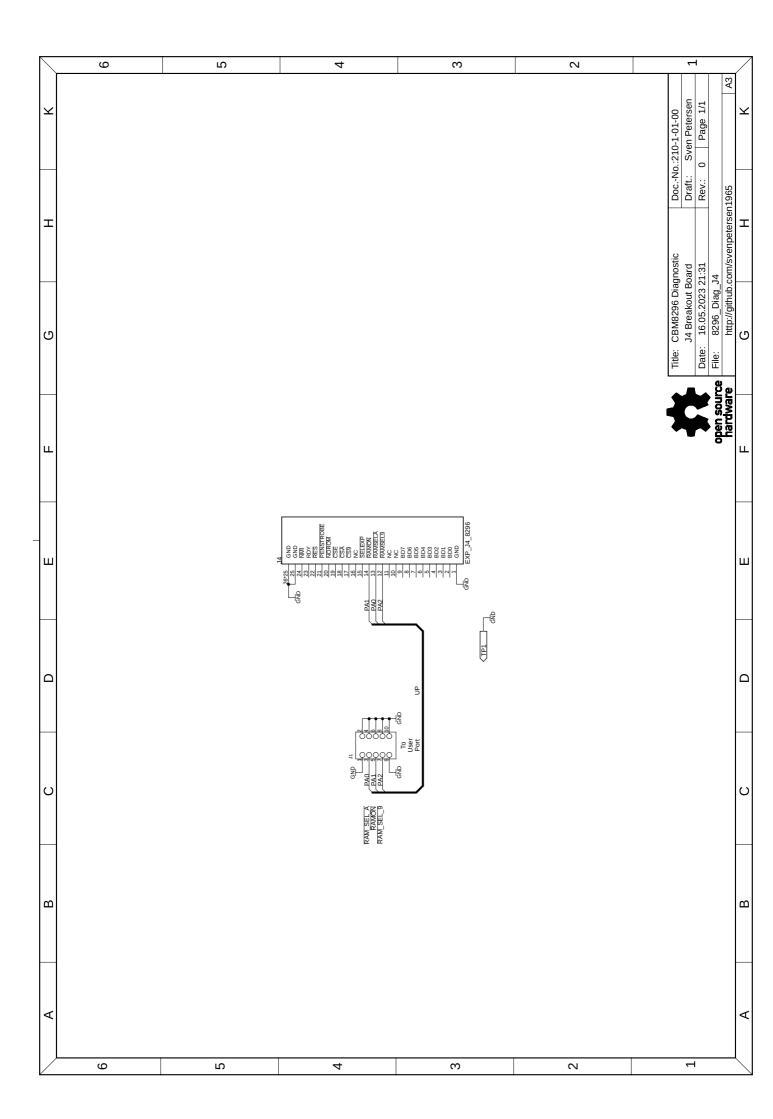
Revision History

Rev. 0

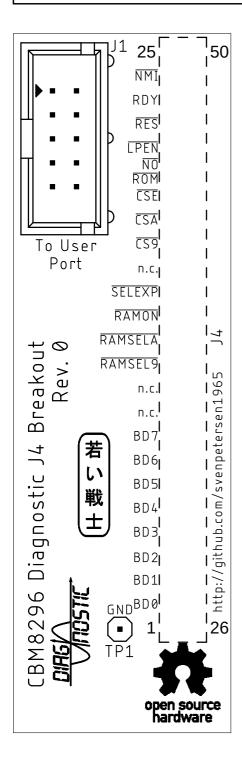
• Prototype, not yet tested.

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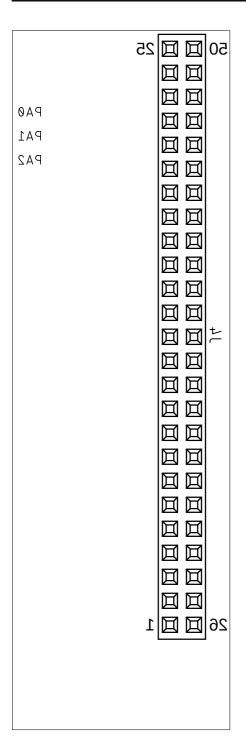
Doc.-No.: 210-6-01-00



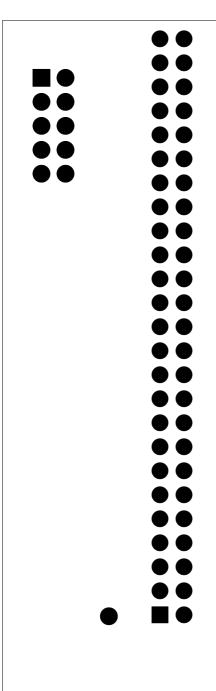
Sven Petersen	DocNo.: 2	10-2-01-00
2023	Cu: 35µm	Cu-Layers: 2
8296_Diag_J4		
17.05.2023 09:46		Rev.: 0
placement component	side	



Sven Petersen	DocNo.: 2	10-2-01-00
2023	Cu: 35µm	Cu-Layers: 2
8296_Diag_J4		
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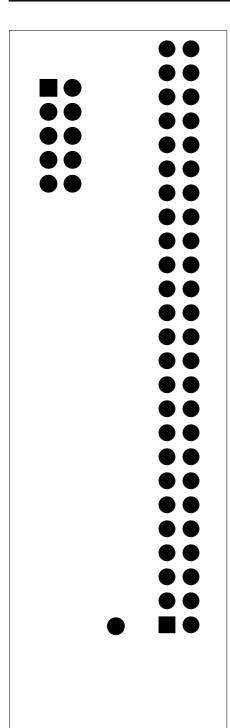


Sven Petersen	DocNo.: 2	10-2-01-00
2023	Cu: 35µm	Cu-Layers: 2
8296_Diag_J4		
17.05.2023 09:46		Rev.: 0
stopmask component	side	

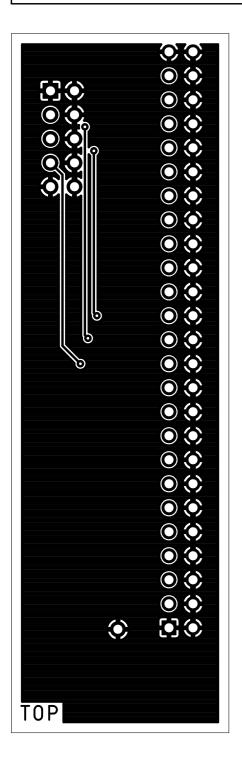


TOP

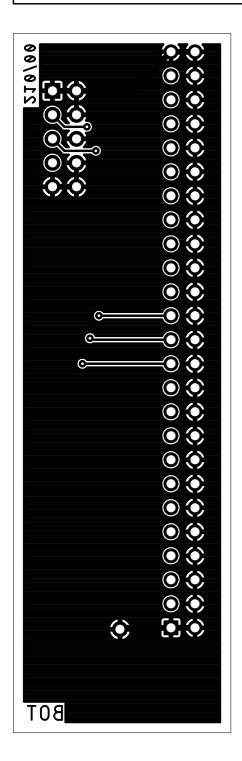
Sven Petersen	DocNo.: 2	10-2-01-00
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8296_Diag_J4		
17.05.2023 09:46		Rev.: 0
stopmask solder side		



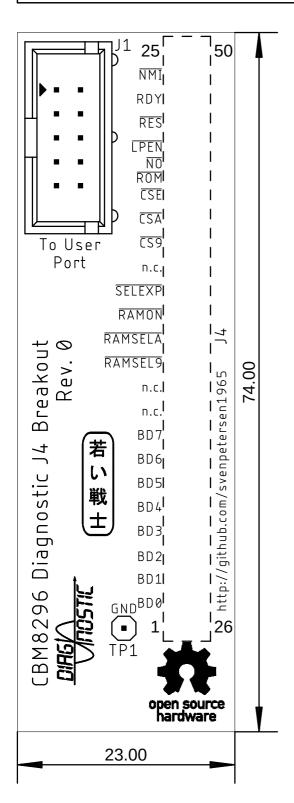
Sven Petersen	DocNo.: 2	10-2-01-00
2023	Cu: 35µm	Cu-Layers: 2
8296_Diag_J4		
17.05.2023 09:46		Rev.: 0
top		



Sven Petersen	DocNo.: 2	10-2-01-00
2023	Cu: 35µm	Cu-Layers: 2
8296_Diag_J4		
17.05.2023 09:46		Rev.: 0
bottom		



Sven Petersen	DocNo.: 2	10-2-01-00
2023	Cu: 35µm	Cu-Layers: 2
8296_Diag_J4		
17.05.2023 09:46		Rev.: 0
placement component	:side mea	sures



Commodore CBM8296 Diagnostic: J4 Breakout Board Rev. 0 Bill of Material Rev. 0.0

			DIE OF INDIGITAL NOV. O.O.	
Pos.	Qty Value	Footprint	RefNo.	Comment
_	1 210-2-01-00	2 Layer	PCB Rev. 0	2 layer, Cu 35µ, HASL, 74.0 × 32.0, 1.6mm FR4
2	1 box connector, 2x5, 2.54mm	2X05WV	JJ	e.g. Reichelt WSL 10G
က	1 pin header, 1 pin	1X01	ТР1	optional ground pin for debugging, e.g. Distrelec 300-93-642 (RND 205-00622)
4	1 2x25 female, pitch 2.54mm	2x25 female	J4	female socket connector for 0.65sq pins, 2x25 pins, pitch 2.54mm. E.g. MPE 094-2-050, e.g. Reichelt.de MPE 094-2- 050