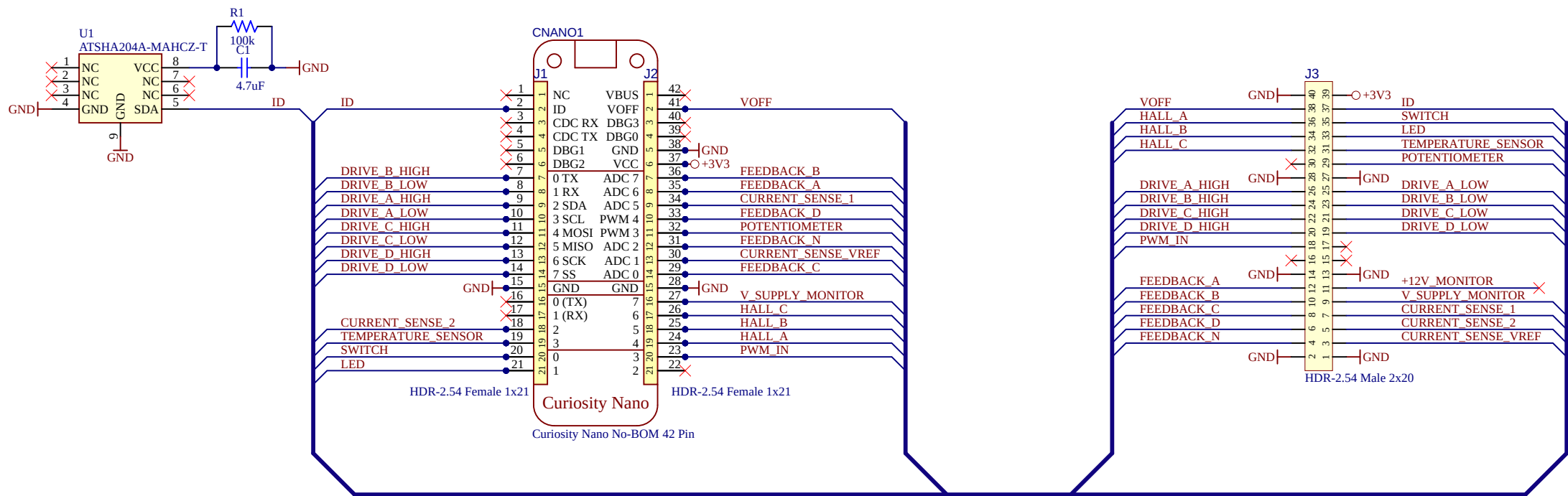


AVR16EB32-CNANO MPPB-Adapter



PAD1
Rubber Pad Cyl D7.9H5.3

PAD2
Rubber Pad Cyl D7.9H5.3



S3
AVR16EB32-CNANO_MPPB-Adapter_Revision_History.SchDoc

Project Owner: PB		 MICROCHIP					
PCB Layout Contact: PB							
PartNumber: EV88N31A		Project Title AVR16EB32-CNANO MPPB-Adapter		Variant: Default Assembly			
Sheet Title Adapter						Designed with  Altium.com	
Size A3	SCH #: 02-01017	Rev: 2	Date: 2024-06-26				
PCB #: 04-12087		Rev: 2	Sheet 1 of 2				
File: AVR16EB32-CNANO_MPPB-Adapter.SchDoc							

Revision History

PCB Assembly Rev 1:

Design Changes:

Initial Design

PCB:

PCB revision 1

PCB Assembly Rev 2:

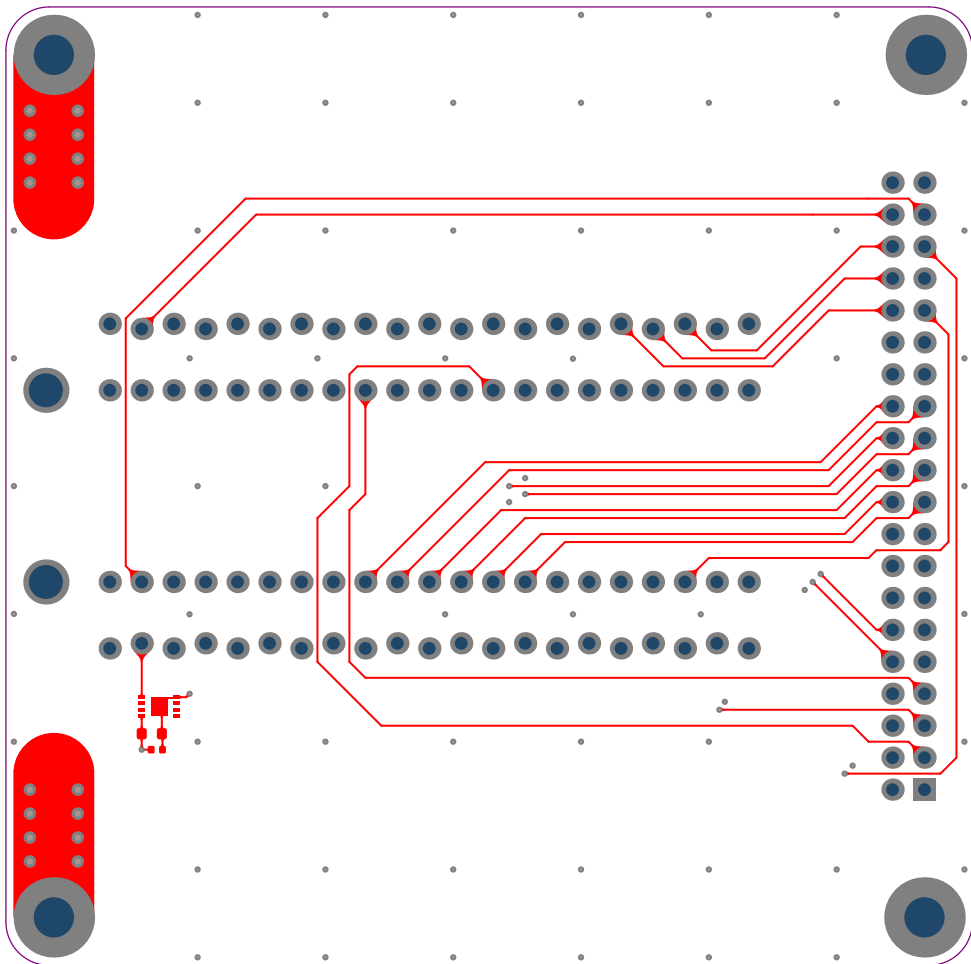
Design Changes:

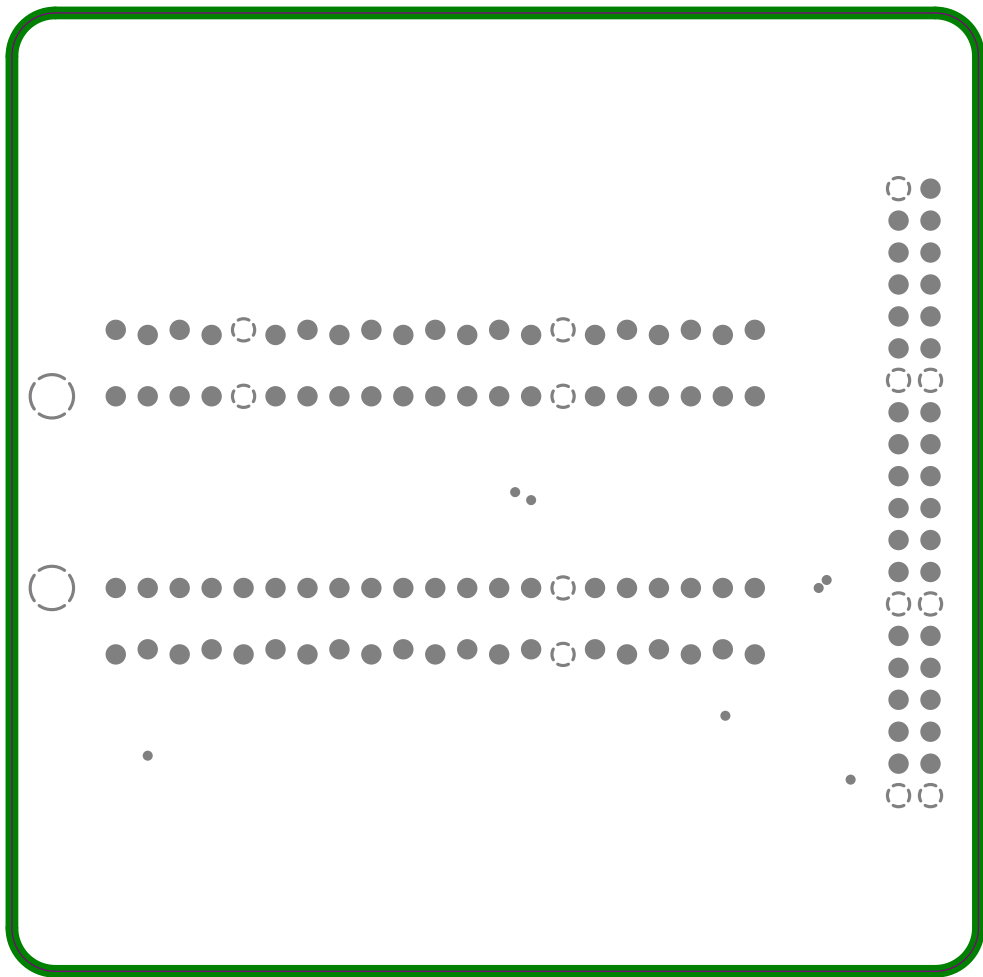
Net name and silk changes

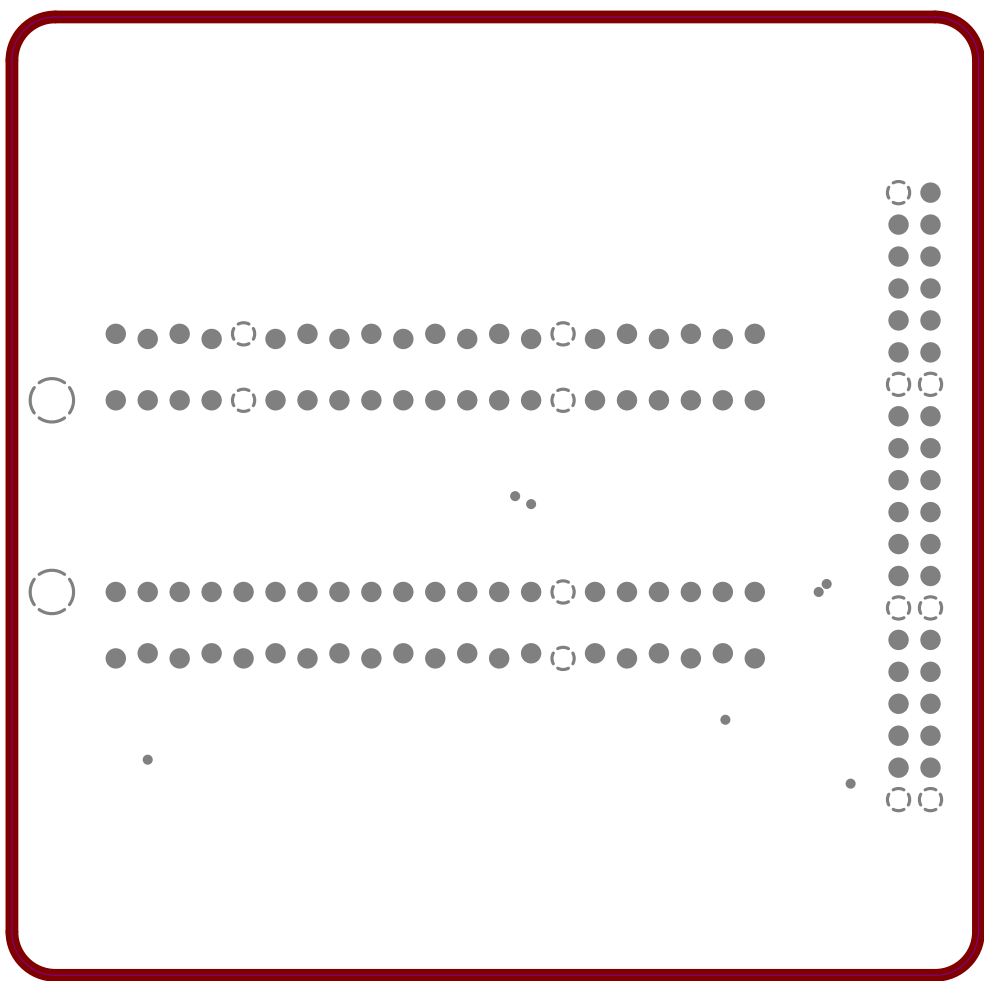
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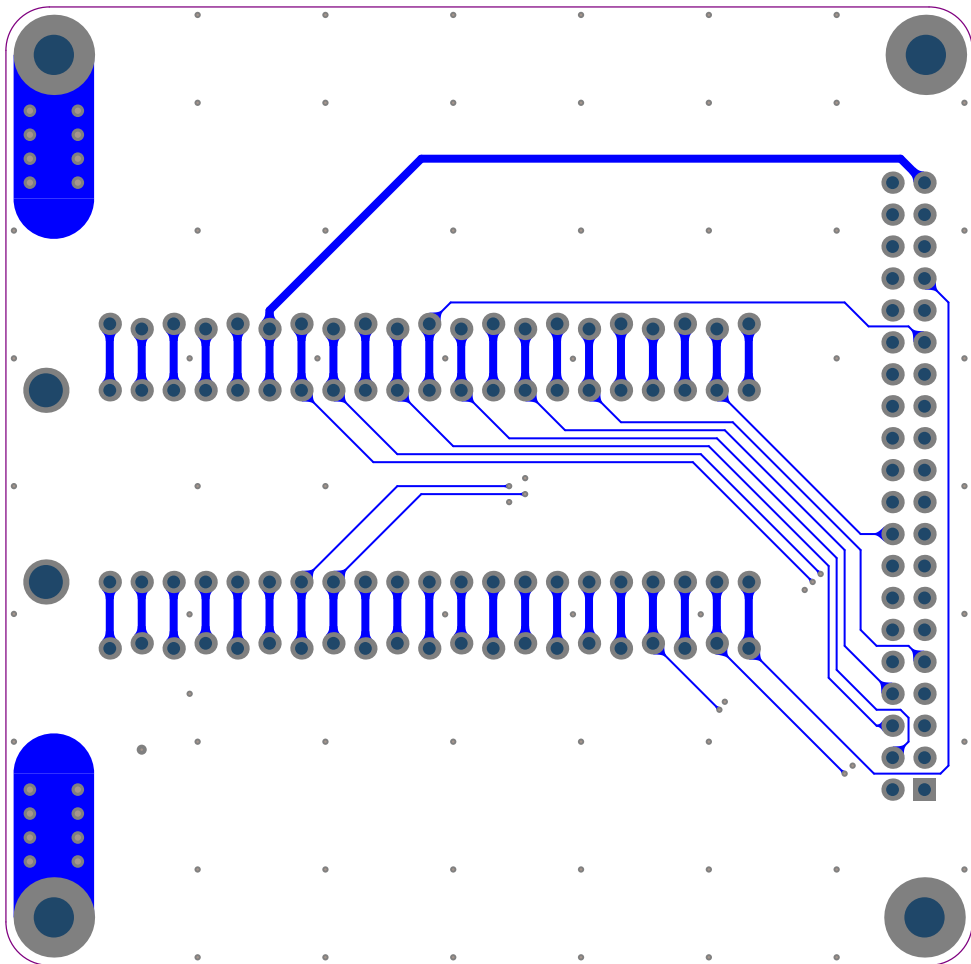
PCB revision 2

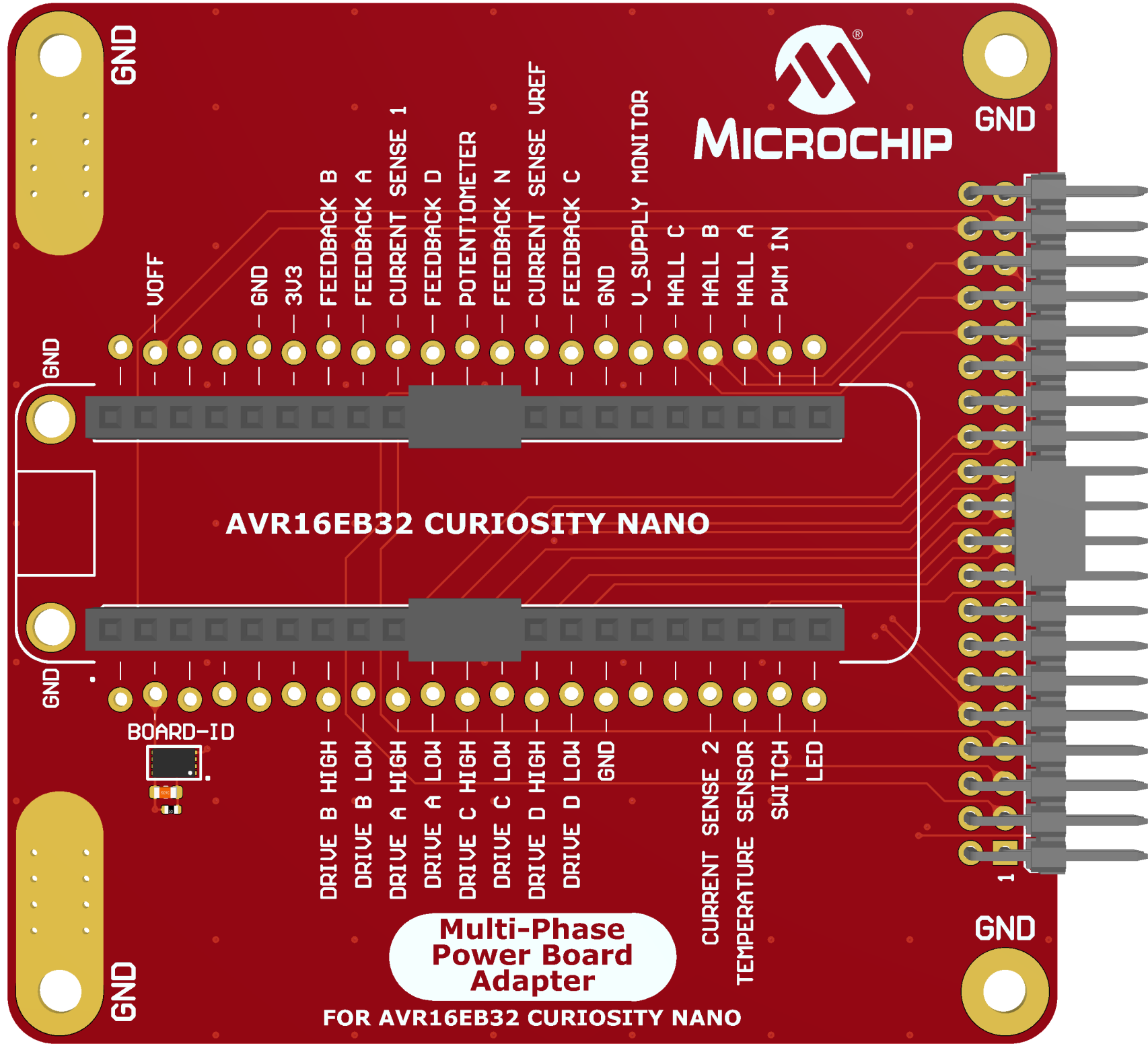
CNANO Template Revision: 2.5











GND

GND

GND

GND

GND

GND

AVR16EB32 CURIOSITY NANO

MICROCHIP

BOARD-ID

DRIVE B HIGH

DRIVE B LOW

DRIVE A HIGH

DRIVE A LOW

DRIVE C HIGH

DRIVE C LOW

DRIVE D HIGH

DRIVE D LOW

GND

CURRENT SENSE 2

TEMPERATURE SENSOR

SWITCH

LED

V_{OFF}

GND

3V3

FEEDBACK B

FEEDBACK A

CURRENT SENSE 1

FEEDBACK D

POTENTIOMETER

FEEDBACK N

CURRENT SENSE V_{REF}

FEEDBACK C

GND

V₊ SUPPLY MONITOR

HALL C

HALL B

HALL A

PWM IN

GND

GND

GND

GND

GND

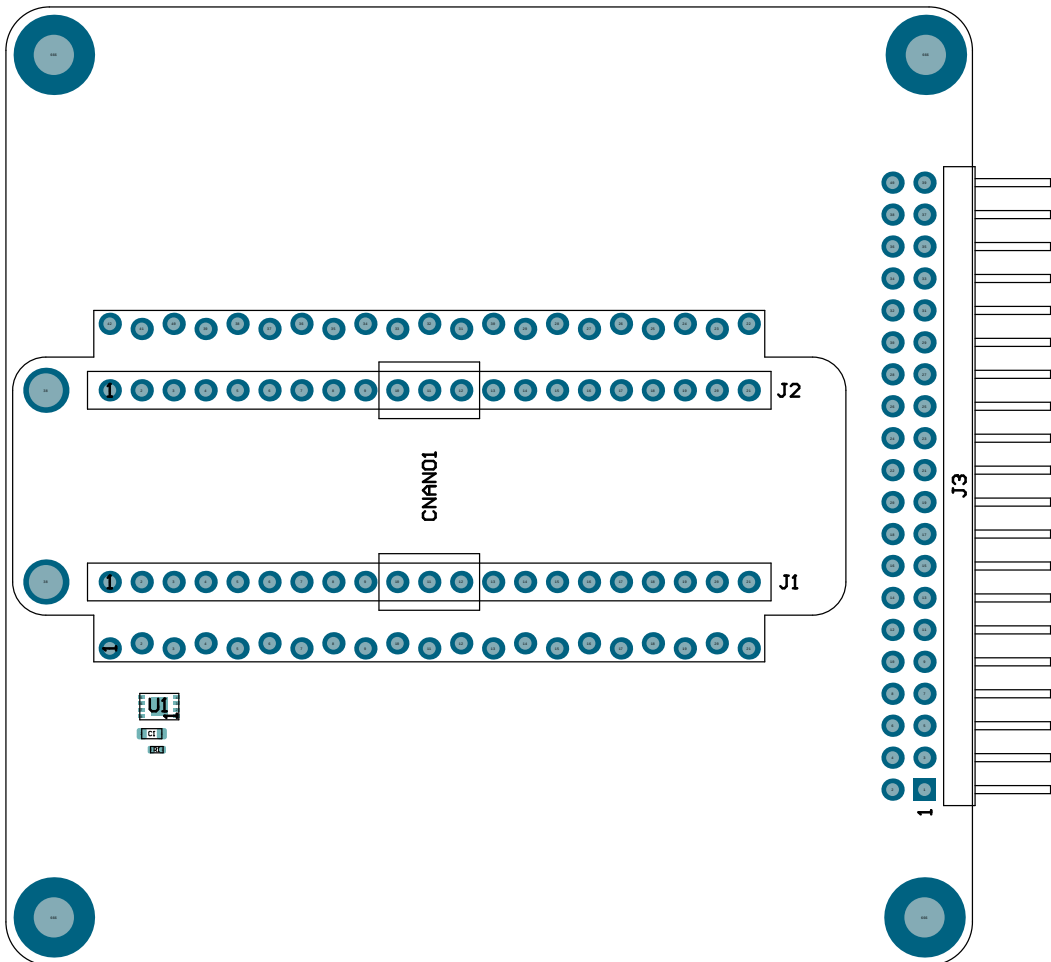
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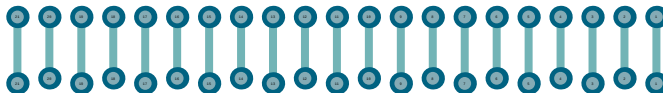


04-12087 Rev2
Microchip © 2024



[ASSY# / REV]
SN: [SERIAL]
[DATE yyyy.mm.dd]





PCB Stackup

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.010mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.035mm		Signal	GTL
Prepreg		0.117mm	PP-016	Dielectric	
Copper	Gnd Plane 1	0.035mm		Internal Plane	GP1
Core		1.200mm	FR-4	Dielectric	
Copper	Gnd Plane 2	0.035mm		Internal Plane	GP2
Prepreg		0.117mm	PP-016	Dielectric	
Copper	Bottom Layer	0.035mm		Signal	GBL
Surface Material	Bottom Solder	0.010mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.594mm					

Component list

AVR16EB32-CNANO MPPB-Adapter

PCBA Number:02-01017

PCBA Revision:2

Variant:Default Assembly



Print Date:		2024-06-26	14:38:14			
Fitted	Designator	Quantity	Value	Manufacturer 1	Manufacturer Part Number 1	Description_
Fitted	C1	1	4.7uF	TDK Corporation	C1608X5R1C475K080AC	CAP CER 4.7uF 16V 10% X5R SMD 0603
Fitted	CNANO1	1	Curiosity Nano No-BOM 42 Pin			CON ADAPTER CNANO No-BOM 42 Pin TH
Fitted	J1, J2	2	HDR-2.54 Female 1x21	WCON	2185-121SS0CUNR1	CON HDR-2.54 Female 1x21 GOLD FLASH/TIN TH-PIP VERT
Fitted	J3	1	HDR-2.54 Male 2x20	WCON	1125-1220G0R140CR01	CON HDR-2.54 MALE 2x20 GOLD FLASH 6.00MH TH-PIP RA
Fitted	LABEL1	1	PCBA LABEL 18X6mm	ACT Logimark AS	505462	LABEL PCBA 18x6mm Datamatrix Assy# / Rev / Serial / Date
Fitted	PAD1, PAD2	2	Rubber Pad Cyl D7.9H5.3	3M	SJ61A11	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK
Fitted	R1	1	100k	Yageo	RC0402FR-07100KL	RES TKF 100k 1% 1/16W SMD 0402
Fitted	TEST1	1				TEST, AVR16EB32-CNANO MPPB-Adapter
Fitted	U1	1	ATSHA204A-MAHCZ-T	Microchip Technology	ATSHA204A-MAHCZ-T	MCHP MEMORY SERIAL EEPROM CRYPTO AUTH 4.5Kb I2C ATSHA204A-MAHCZ-T UDFN-8
		11				
Approved			Notes			