

Nordic Semiconductor ASA

nRF52832 Bluetooth Smart/ANT/2.4GHz RF Development Board (PCA10040)

Sheet 1: nRF Radio

Sheet 2: Interface MCU

Sheet 3: Buttons and LEDs

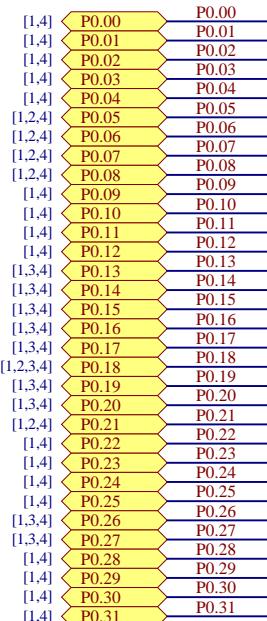
Sheet 4: Connectors

Sheet 5: Power Supply

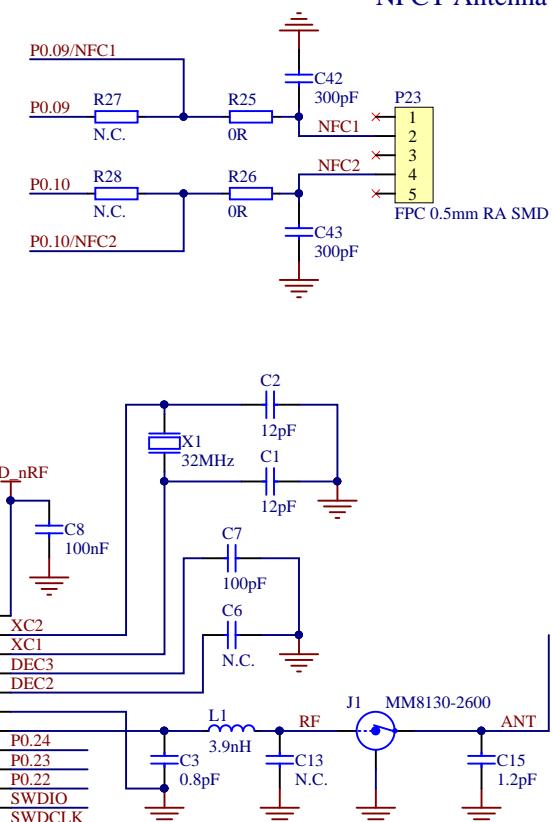
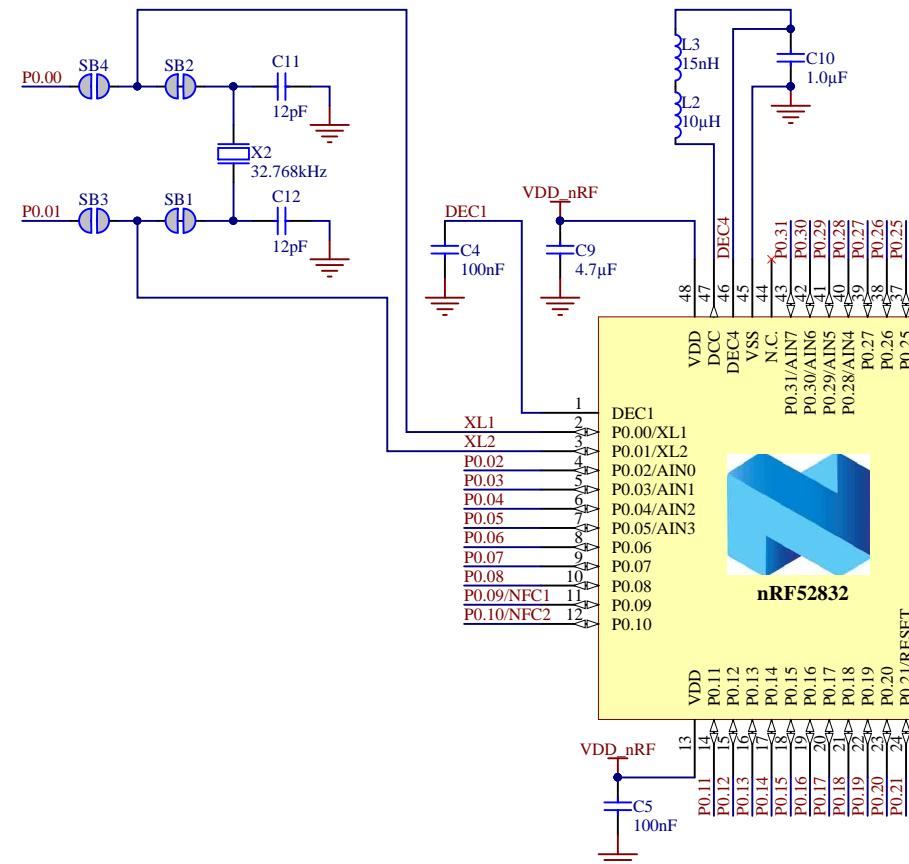
 The No ERC object is a design directive.
This directive is placed on a node in the circuit to suppress reported warnings and/or error violation conditions that are detected when the schematic project is compiled.



PCA10040 - Cover		
Size	Project Number	Revision
A3	4397	1.1.1
Date:	4/21/2016	Sheet 0 of 5
File:	pca10040_sheet0_cover.SchDoc	Drawn By: KJP

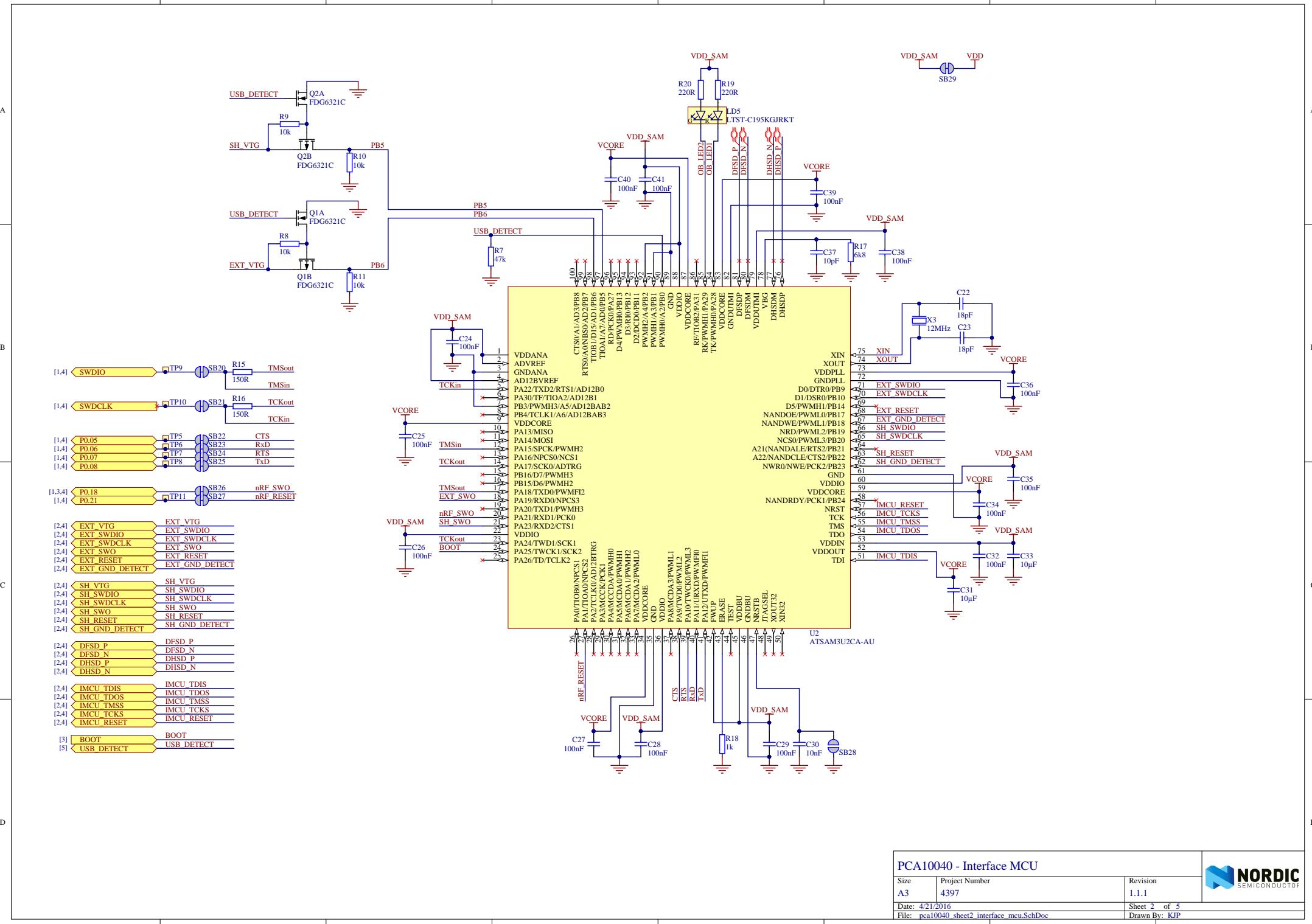


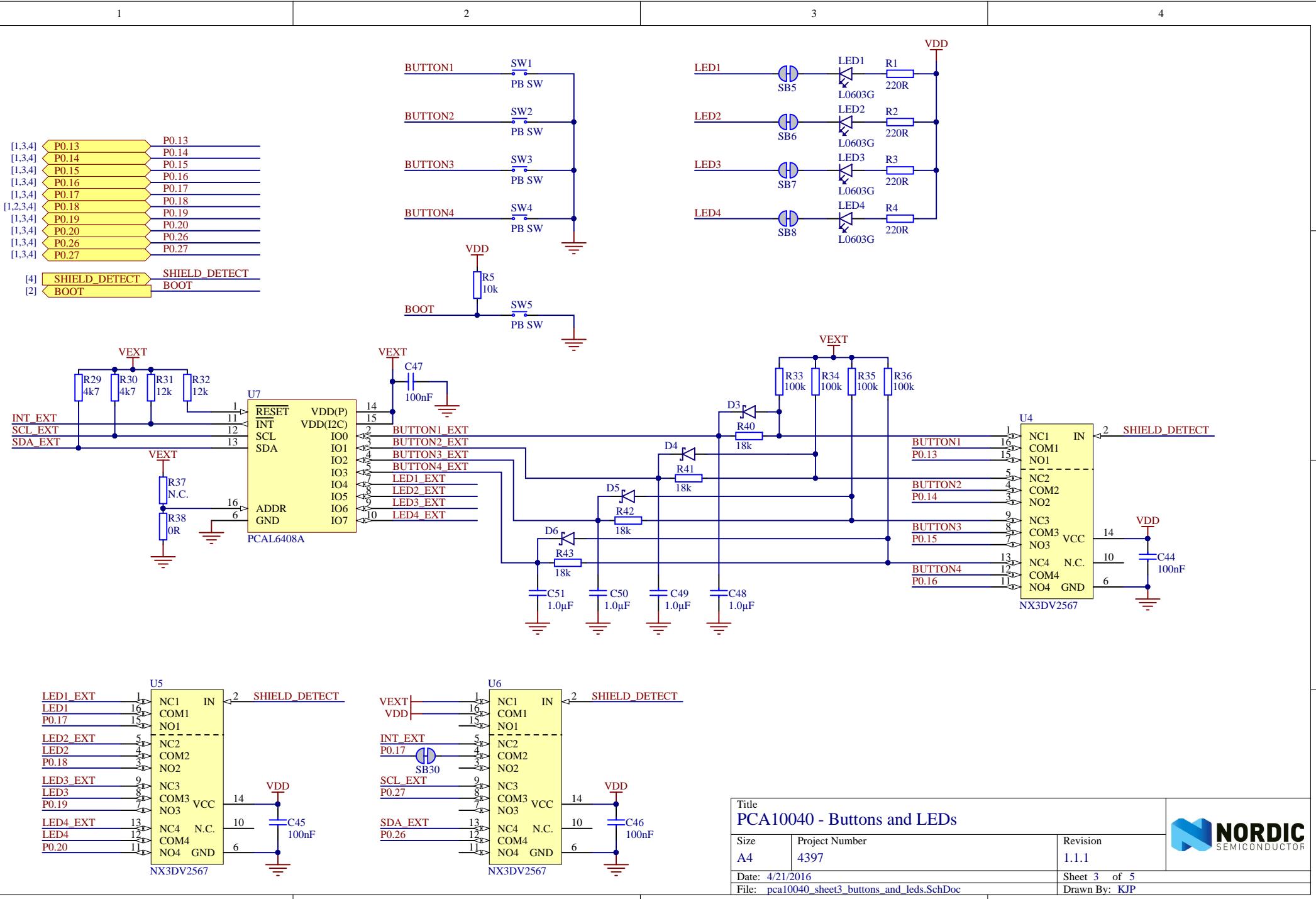
The diagram shows two yellow arrows pointing from pin numbers [1,2,4] to their respective connections: SWDIO and SWDCLK.



Title
PCA10040 - nRF Radio

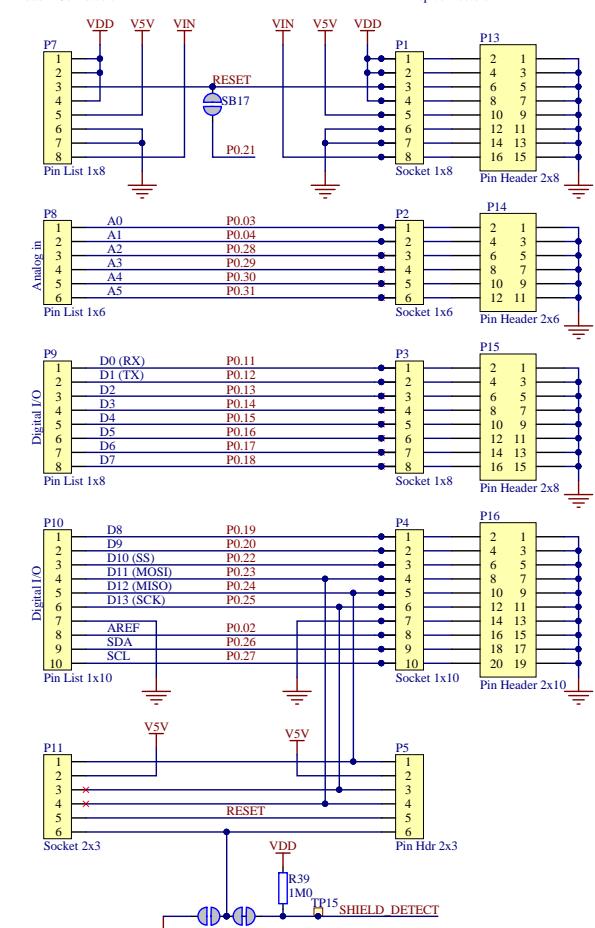
Size A4	Project Number 4397	Revision 1.1.1	 NORDIC SEMICONDUCTOR
Date: 4/21/2016	Sheet 1 of 5		
File: pca10040_sheet1_radio.SchDoc	Drawn By: KJP		





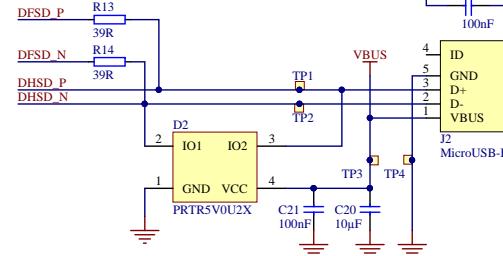
Arduino Interface Connectors

Bottom Connectors

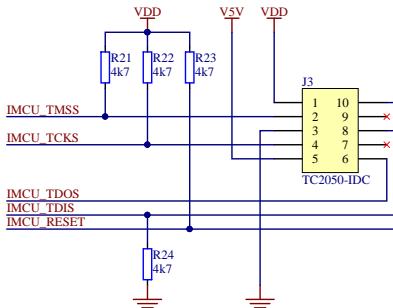


Top connectors

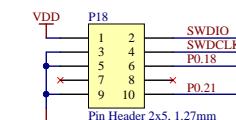
USB Connector



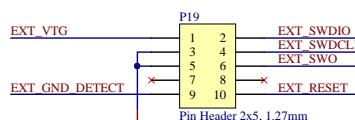
J-Link Prog Connector



Debug IN Connector

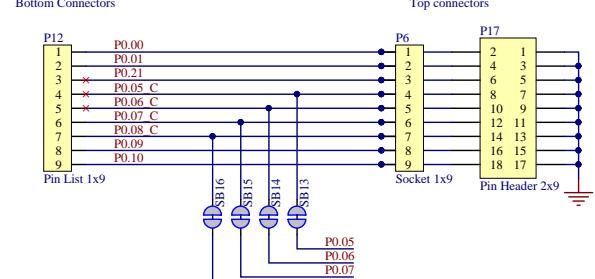


Debug OUT Connector



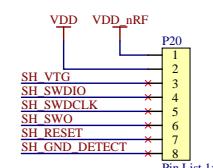
Auxiliary Connectors

Bottom Connectors



Top connectors

Shield Debug and Current measurement Connector



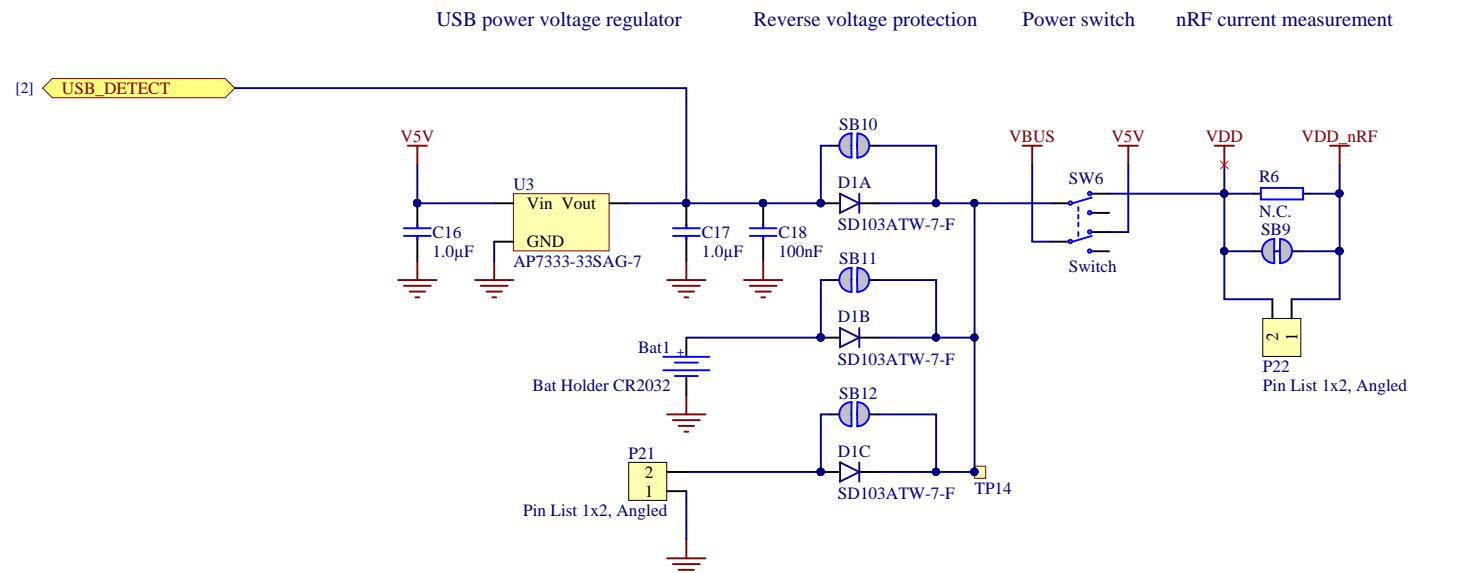
PCA10040 - Connectors

Size	Project Number	Revision
A3	4397	1.1.1
Date:	4/21/2016	Sheet 4 of 5
File:	peca10040_sheet4_connectors.SchDoc	Drawn By: KJP

NORDIC
SEMICONDUCTOR

A

A

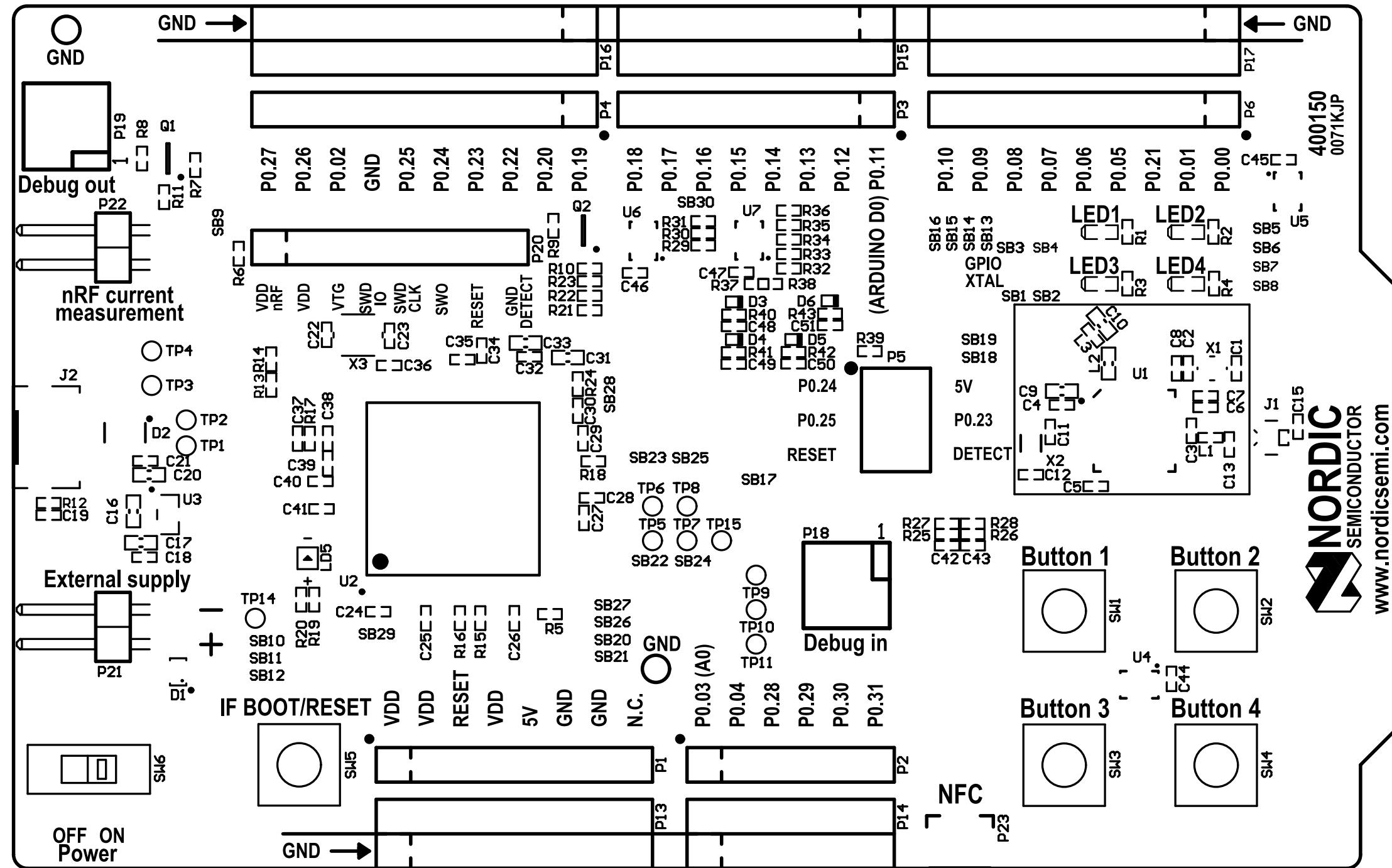


Instrument ground



Title
PCA10040 - Power Supply

Size A4	Project Number 4397	Revision 1.1.1	NORDIC SEMICONDUCTOR
Date: 4/21/2016		Sheet 5 of 5	
File: pca10040_sheet5_power_supply.SchDoc			Drawn By: KJP

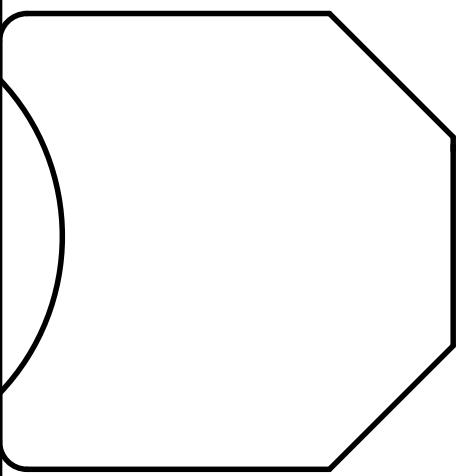




NORDIC SEMICONDUCTOR
www.nordicsemi.com



www.sendgrid.com



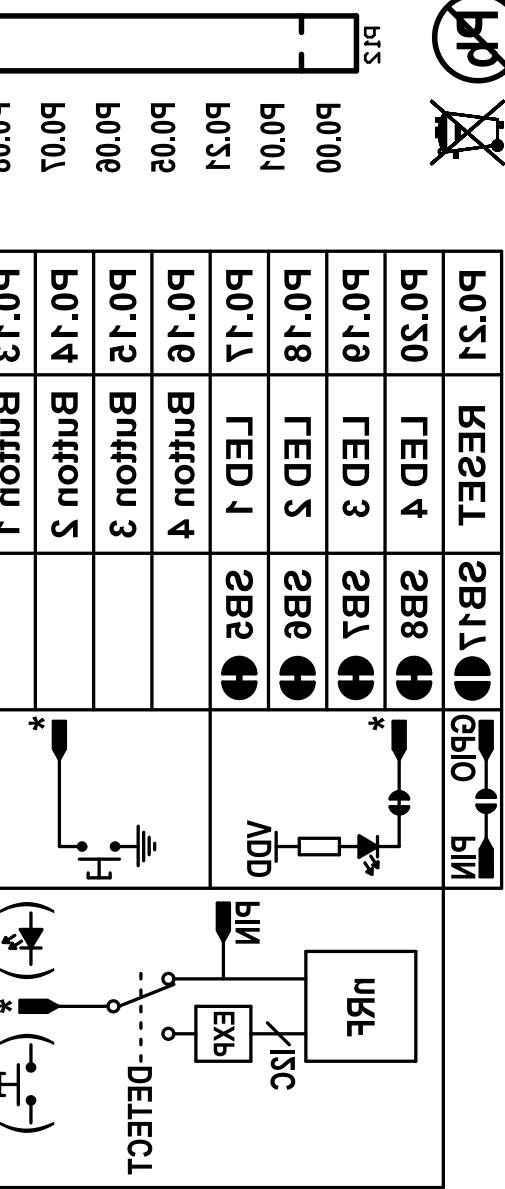
MRA

grado.bmed

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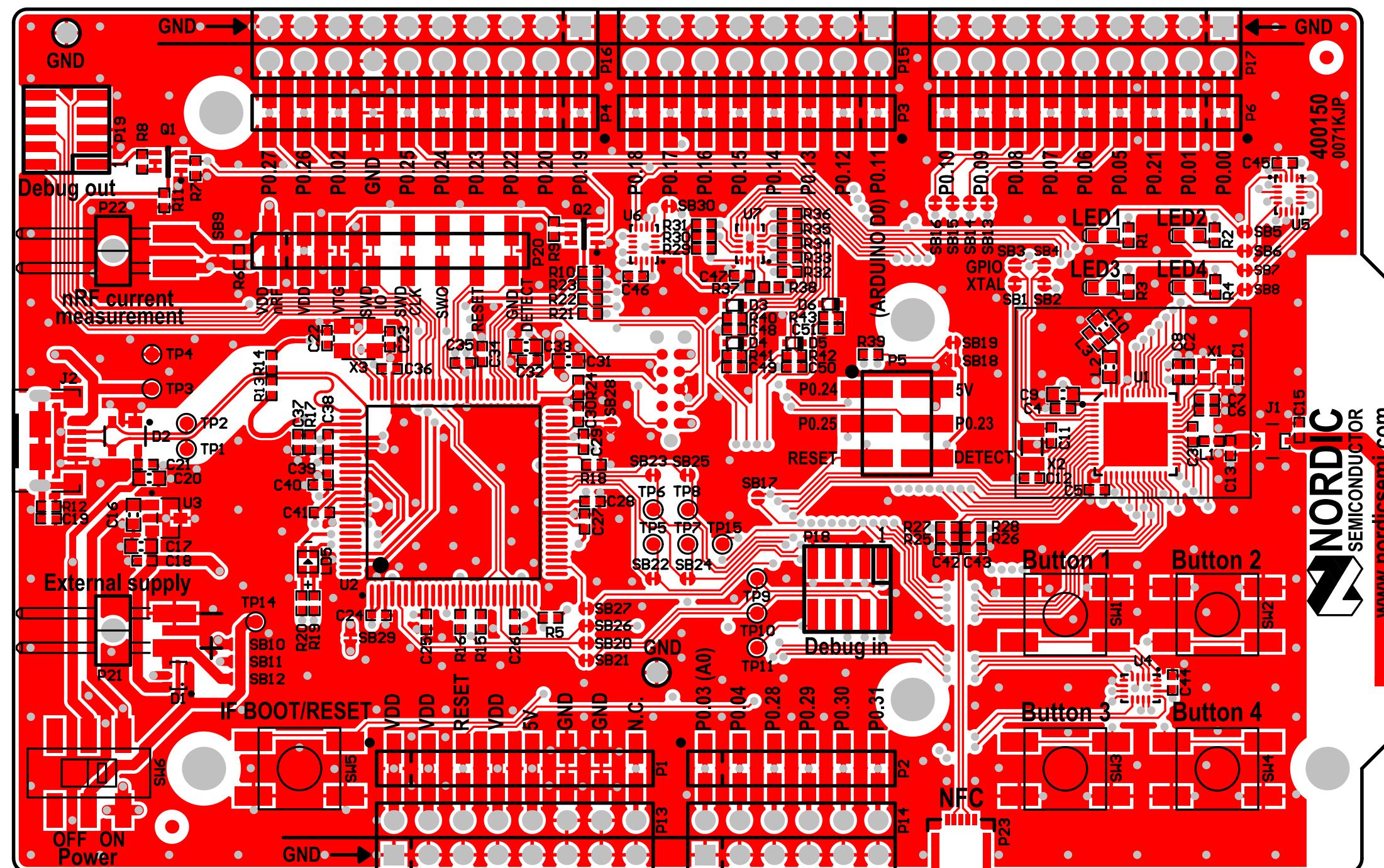
89
90 (A) 13.0 (B) 0.3 (C) 0.0 (D) 0.4 (E) 0.6
91 (A) 2.0 (B) 2.5 (C) 3.0 (D) 3.5 (E) 4.0
92 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
93 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
94 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
95 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
96 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
97 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
98 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
99 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8
100 (A) 0.0 (B) 0.2 (C) 0.4 (D) 0.6 (E) 0.8

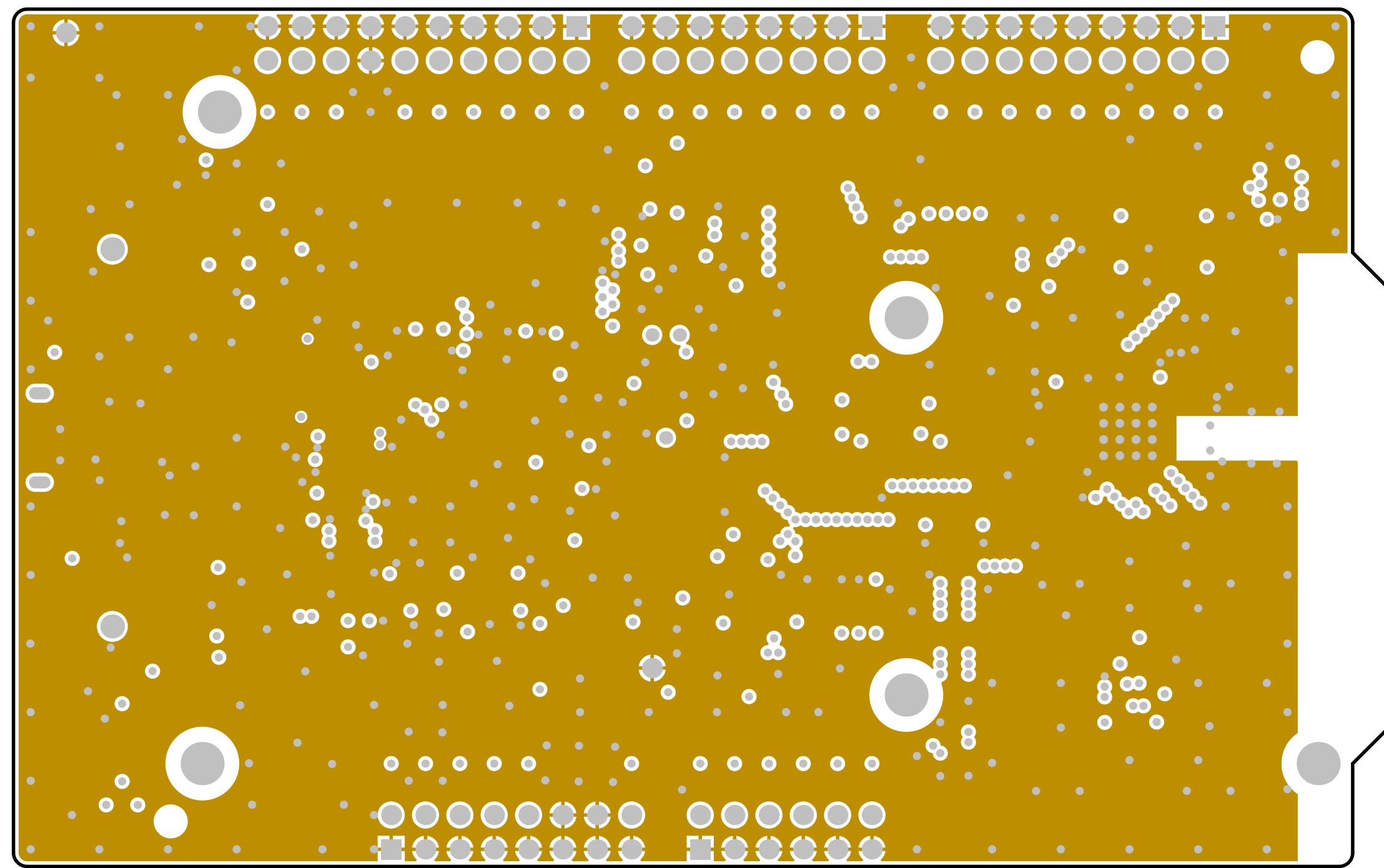
NO EXPANDE **WH** **shows** **function** **Op** **Eq**

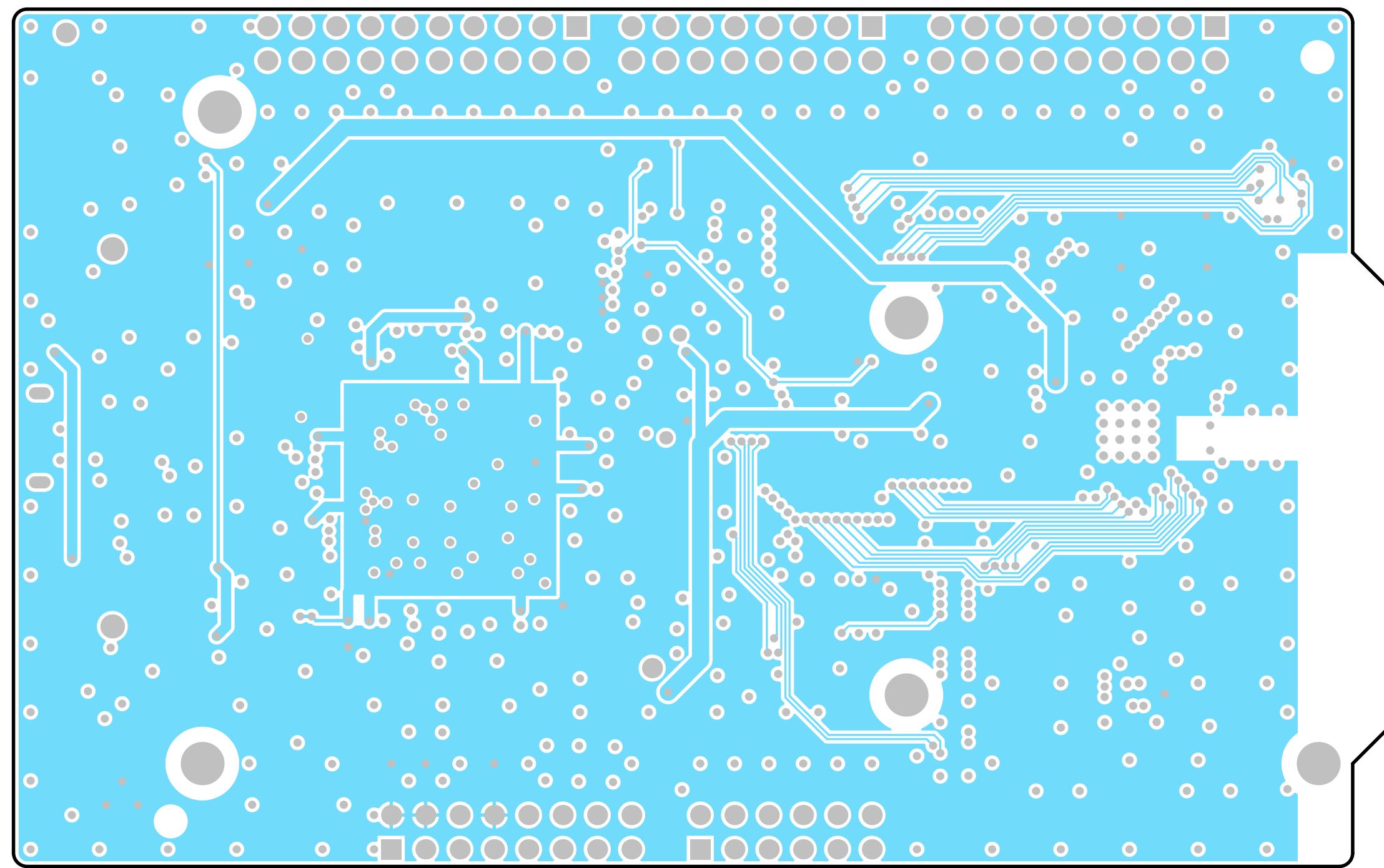


NORDIC SEMICONDUCTOR

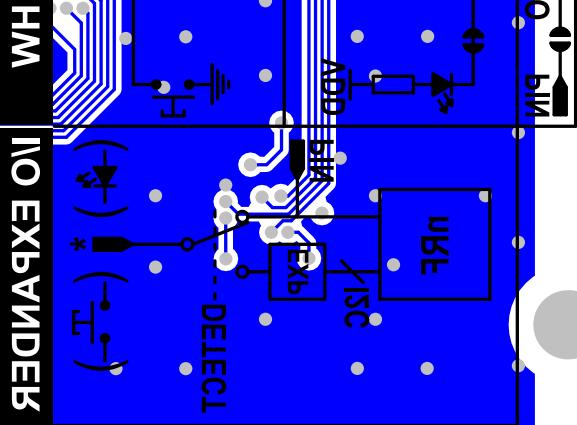
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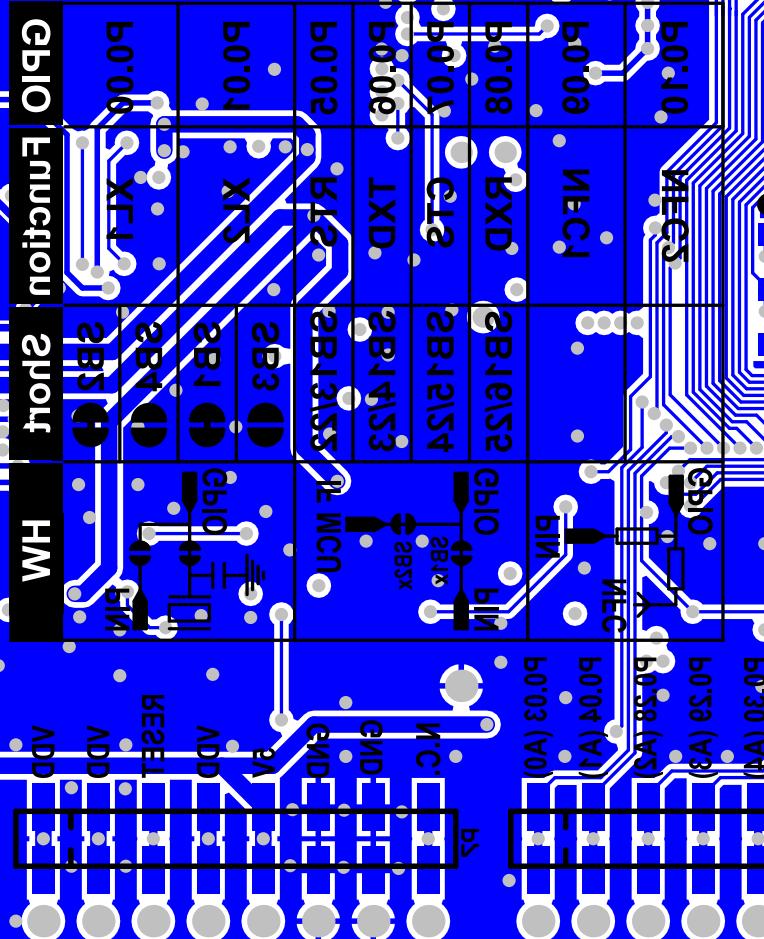


0.0..5.0	LED 4	288	0.0..5.0	LED 4	288
0.0..5.0	LED 3	287	0.0..5.0	LED 3	287
0.0..5.0	LED 5	286	0.0..5.0	LED 5	286
0.0..5.0	LED 1	285	0.0..5.0	LED 1	285
0.0..5.0	LED 2	284	0.0..5.0	LED 2	284



GPIO Function Shows

NO EXTRAS



GPIO Function Shows

WH

RES

AD0

AD1

AD2

AD3

AD4

AD5

AD6

AD7

AD8

AD9

AD10

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