

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.

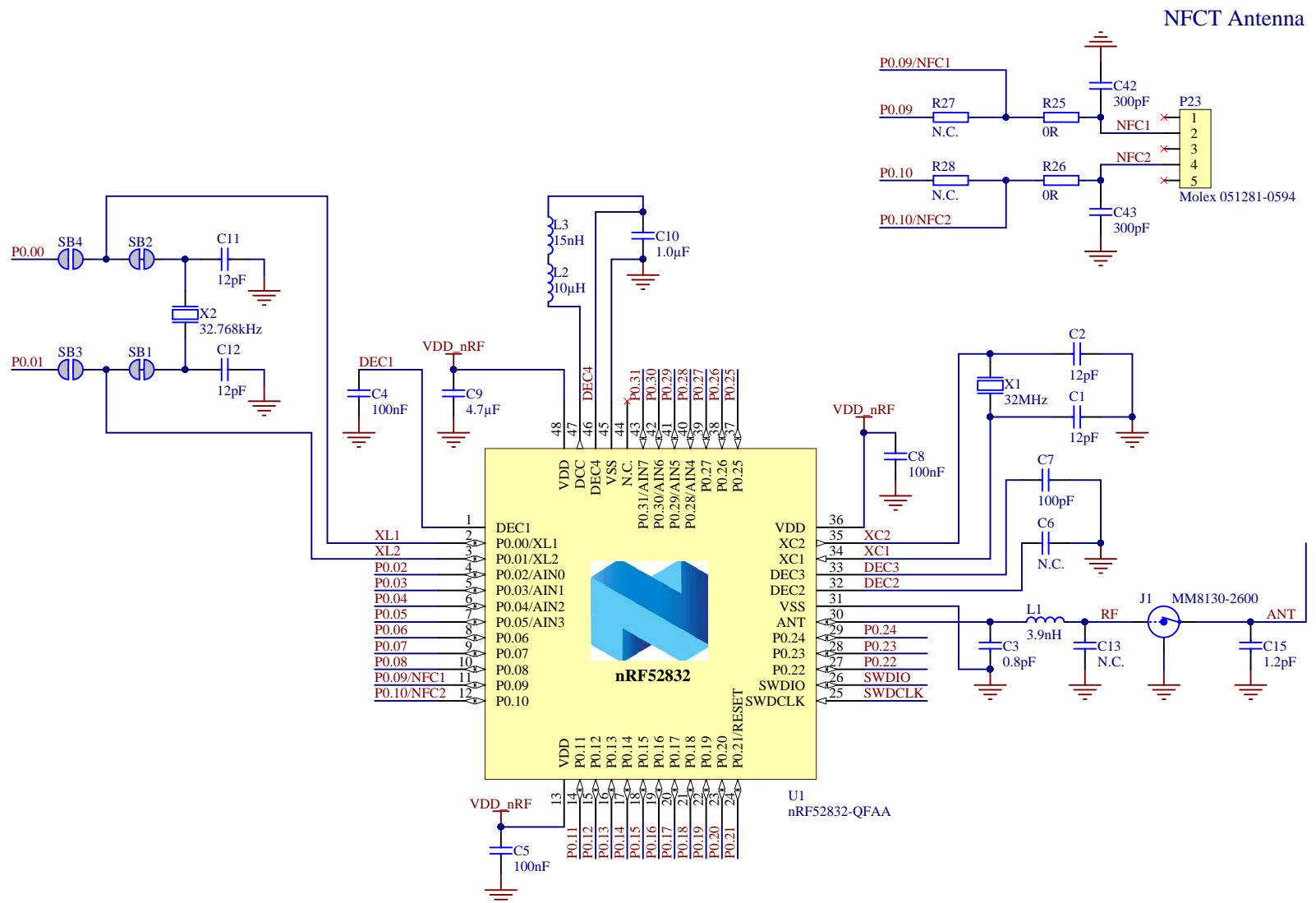



PCA10040 - Cover

Size	Project Number	Revision	
A3	4397	1.1.0	
Date: 1/25/2016		Sheet 0 of 5	
File: pca10040_sheet0_cover.SchDoc		Drawn By: KJP	

[1,4]	P0.00	P0.00
[1,4]	P0.01	P0.01
[1,4]	P0.02	P0.02
[1,4]	P0.03	P0.03
[1,4]	P0.04	P0.04
[1,2,4]	P0.05	P0.05
[1,2,4]	P0.06	P0.06
[1,2,4]	P0.07	P0.07
[1,2,4]	P0.08	P0.08
[1,4]	P0.09	P0.09
[1,4]	P0.10	P0.10
[1,4]	P0.11	P0.11
[1,4]	P0.12	P0.12
[1,4]	P0.13	P0.13
[1,3,4]	P0.14	P0.14
[1,3,4]	P0.15	P0.15
[1,3,4]	P0.16	P0.16
[1,3,4]	P0.17	P0.17
[1,3,4]	P0.18	P0.18
[1,2,3,4]	P0.19	P0.19
[1,3,4]	P0.20	P0.20
[1,3,4]	P0.21	P0.21
[1,2,4]	P0.22	P0.22
[1,4]	P0.23	P0.23
[1,4]	P0.24	P0.24
[1,4]	P0.25	P0.25
[1,3,4]	P0.26	P0.26
[1,3,4]	P0.27	P0.27
[1,4]	P0.28	P0.28
[1,4]	P0.29	P0.29
[1,4]	P0.30	P0.30
[1,4]	P0.31	P0.31

[1,2,4]	SWDIO	SWDIO
[1,2,4]	SWDCLK	SWDCLK



Title PCA10040 - nRF Radio			
Size A4	Project Number 4397	Revision 1.1.0	
Date: 1/25/2016			Sheet 1 of 5
File: pca10040_sheet1_radio.SchDoc			Drawn By: KJP

A

A

B

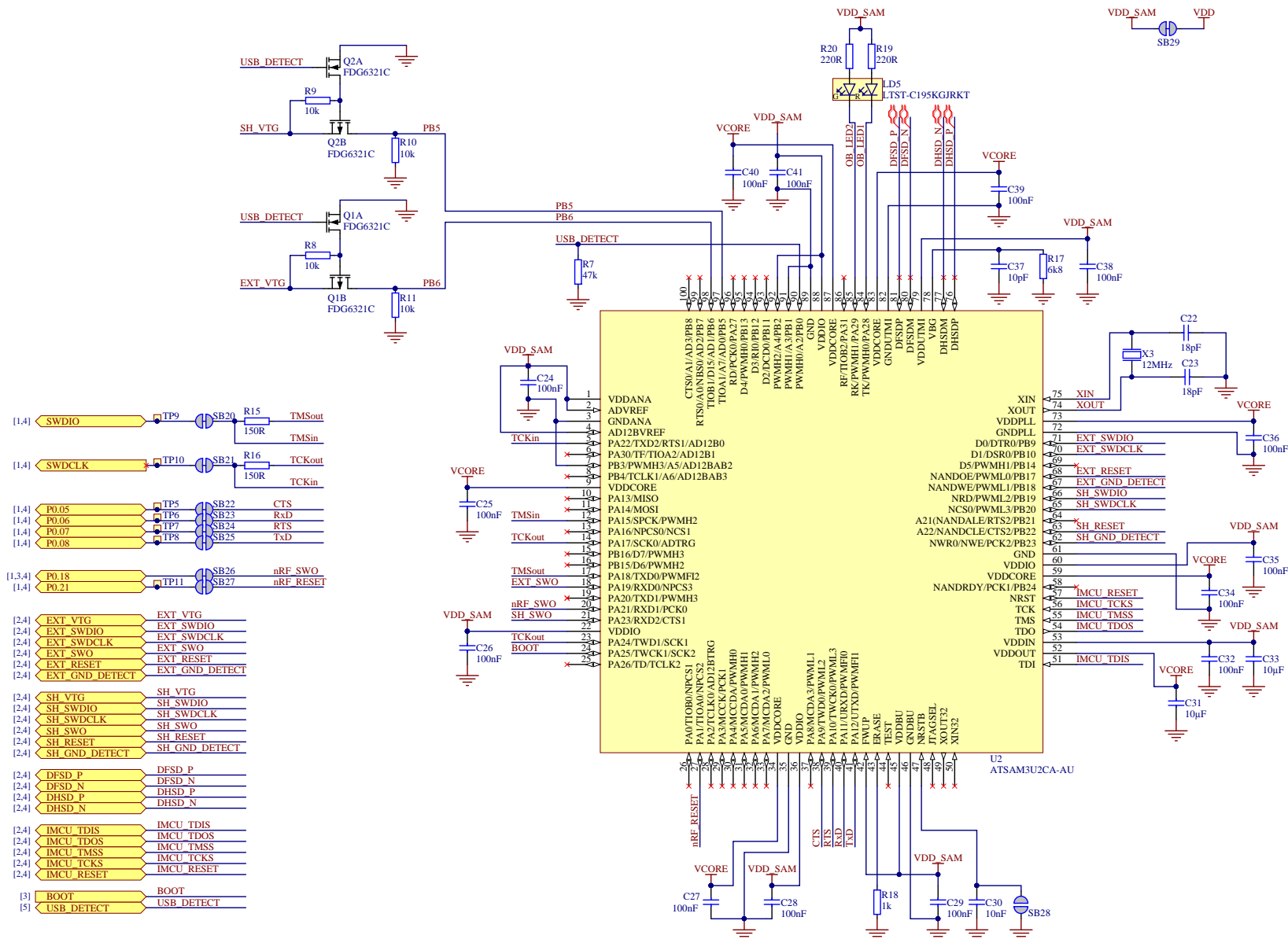
B

C

C

D

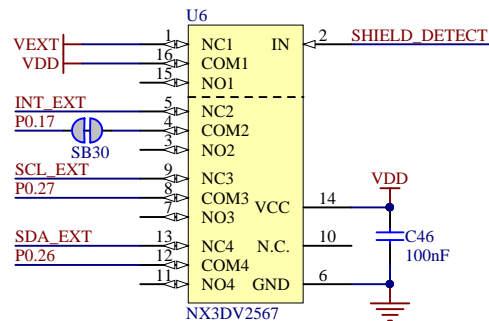
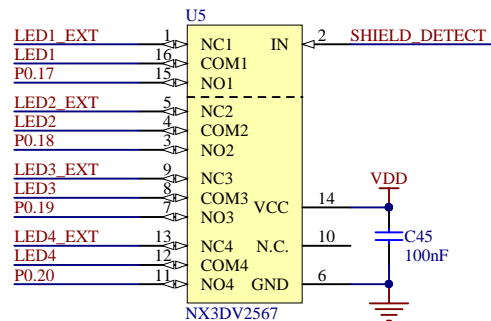
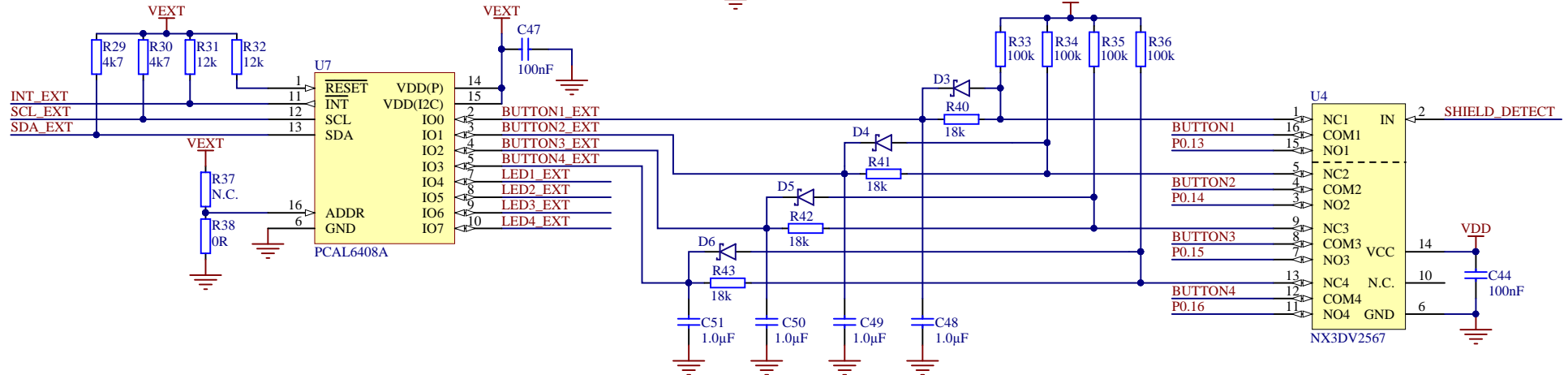
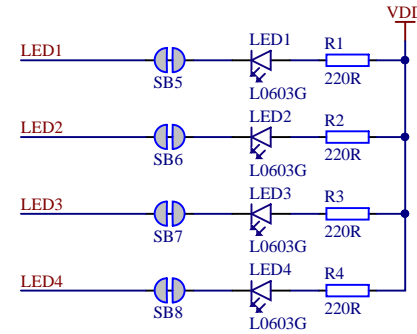
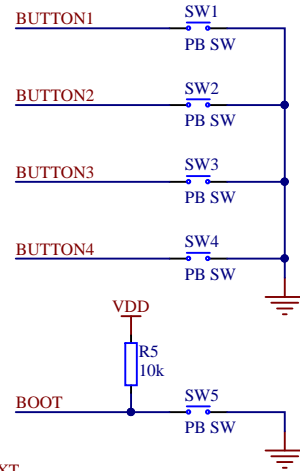
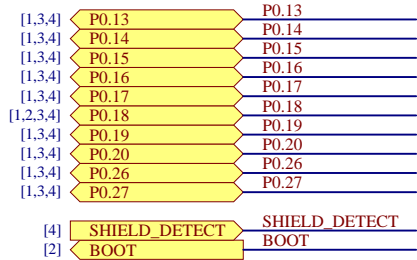
D



PCA10040 - Interface MCU

Size	Project Number	Revision
A3	4397	1.1.0
Date: 1/25/2016	Sheet 2 of 5	
File: pca10040_sheet2_interface_mcu.SchDoc	Drawn By: KJP	





PCA10040 - Buttons and LEDs

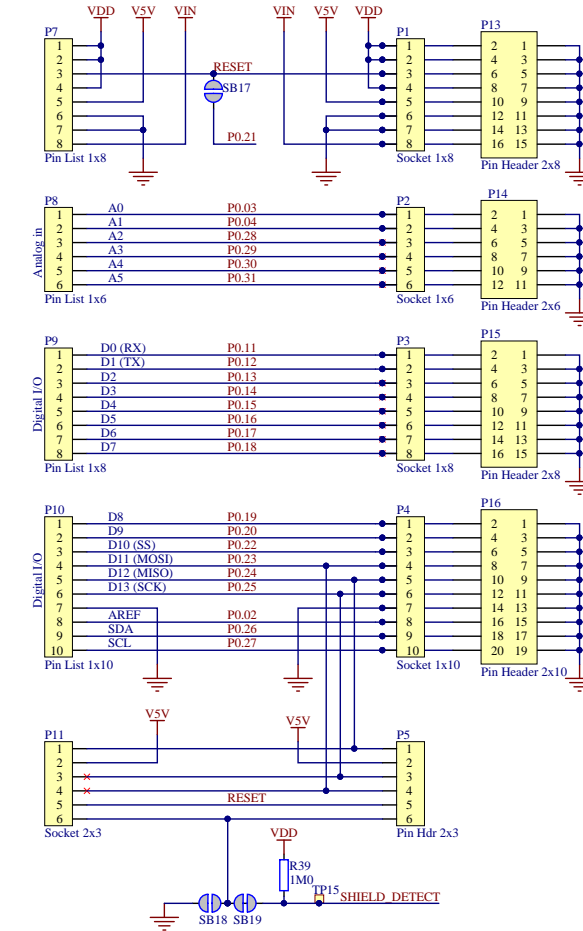
Size	Project Number	Revision
A4	4397	1.1.0
Date:	1/25/2016	Sheet 3 of 5
File:	pca10040_sheet3_buttons_and_leds.SchDoc	Drawn By: KJP



Arduino Interface Connectors

Bottom Connectors

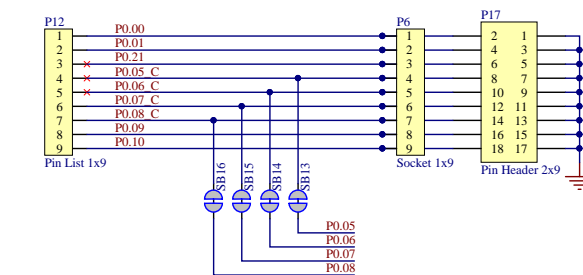
Top connectors



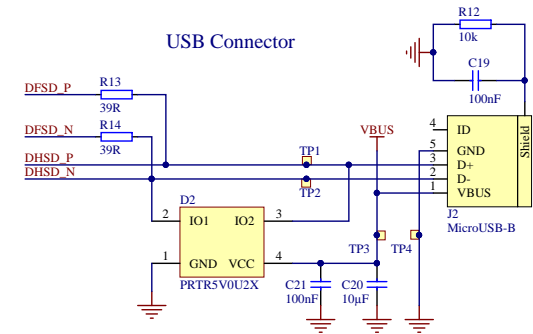
Auxiliary Connectors

Bottom Connectors

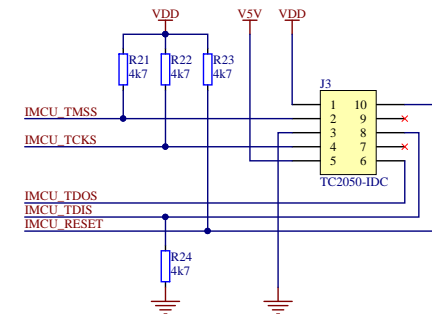
Top connectors



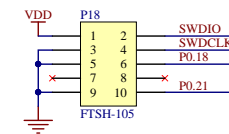
USB Connector



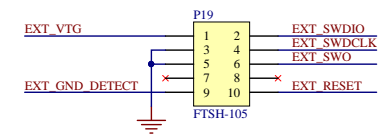
J-Link Prog Connector



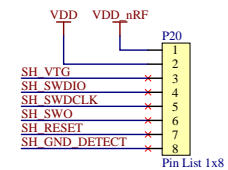
Debug IN Connector



Debug OUT Connector



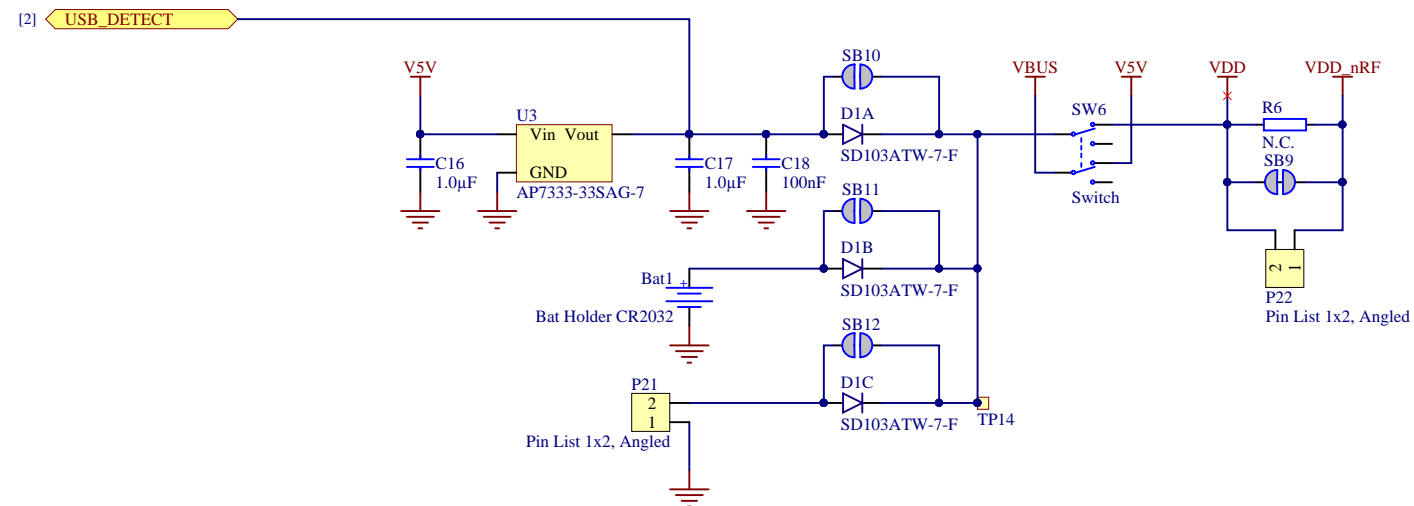
Shield Debug and Current measurement Connector




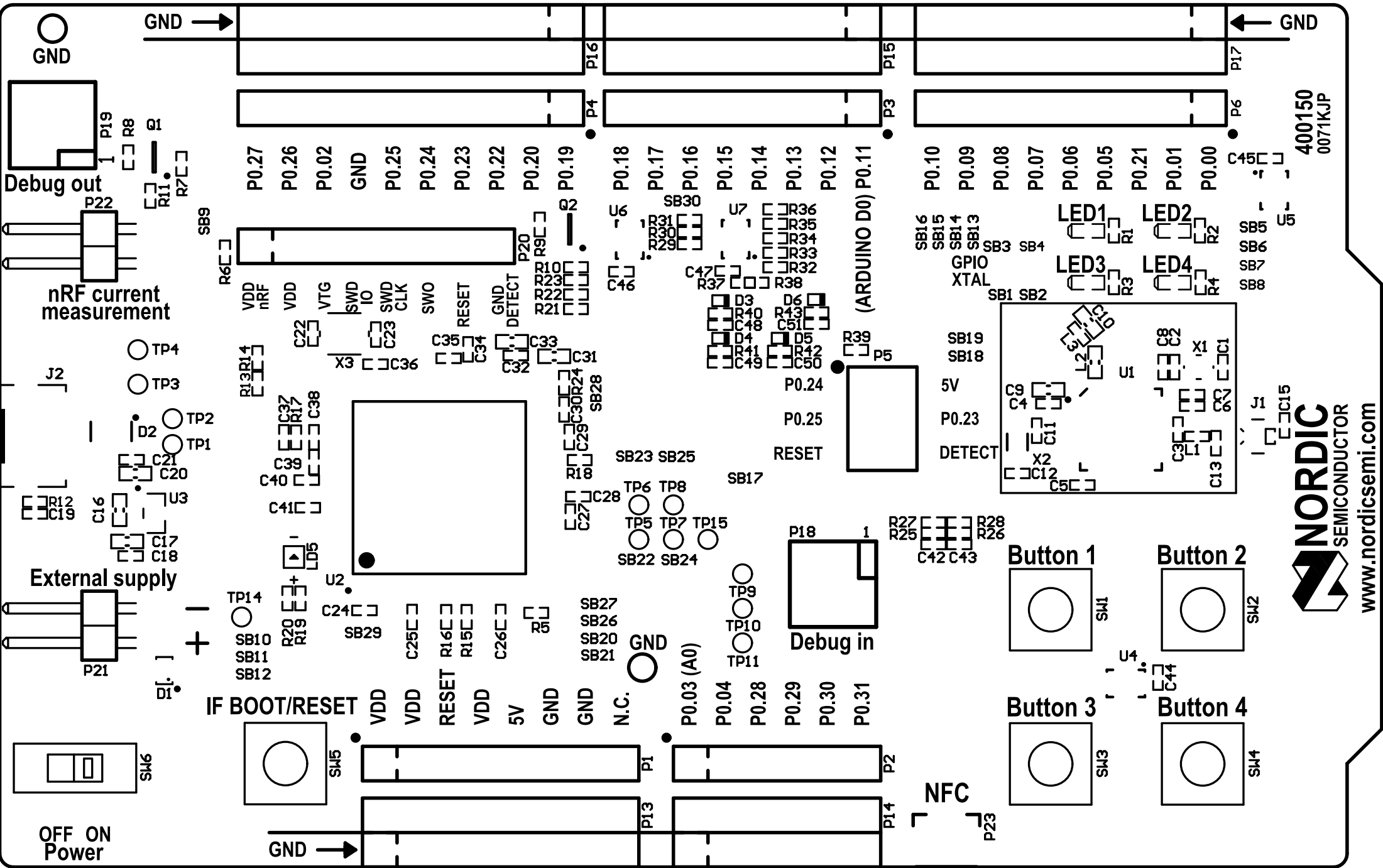
PCA10040 - Connectors

Size	Project Number	Revision
A3	4397	1.1.0
Date: 1/25/2016	Sheet 4 of 5	
File: pca10040 sheet4_connectors.SchDoc	Drawn By: KJP	

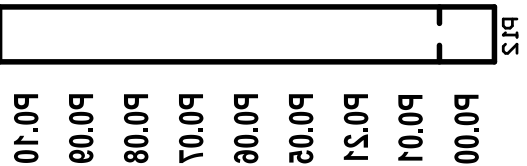




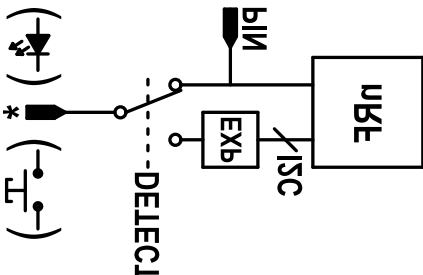


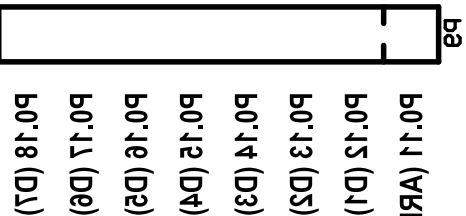
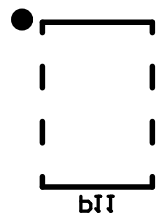
Title PCA10040 - Power Supply			
Size A4	Project Number 4397	Revision 1.1.0	
Date: 1/25/2016		Sheet 5 of 5	
File: pca10040_sheet5_power_supply.SchDoc		Drawn By: KJP	



400150
0071KJP



P0.31	RESET	2B11	 GPIO  BIN	
P0.30	LED 4	2B8		
P0.18	LED 3	2B1		
P0.18	LED 5	2B8		
P0.11	LED 1	2B2		
P0.16	Button 4			
P0.12	Button 3			
P0.14	Button 5			
P0.13	Button 1			
GPIO	Function	Signal	HM	



b0:10	NEC5				b0:31 (V2)
b0:08	NEC1				b0:30 (V4)
b0:08	RXD	2B10/52			b0:38 (V3)
b0:01	CLS	2B12/54			b0:38 (V5)
b0:06	LXD	2B14/53			b0:04 (V1)
b0:02	RLS	2B13/55			b0:03 (V0)
b0:01	XLS	2B3			
b0:00	XLS	2B4			
b0:00	XLS	2B5			
GPIO	Function	Signal	HM	IO EXPANDER	

b0:18	BXD	2B14\52	
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