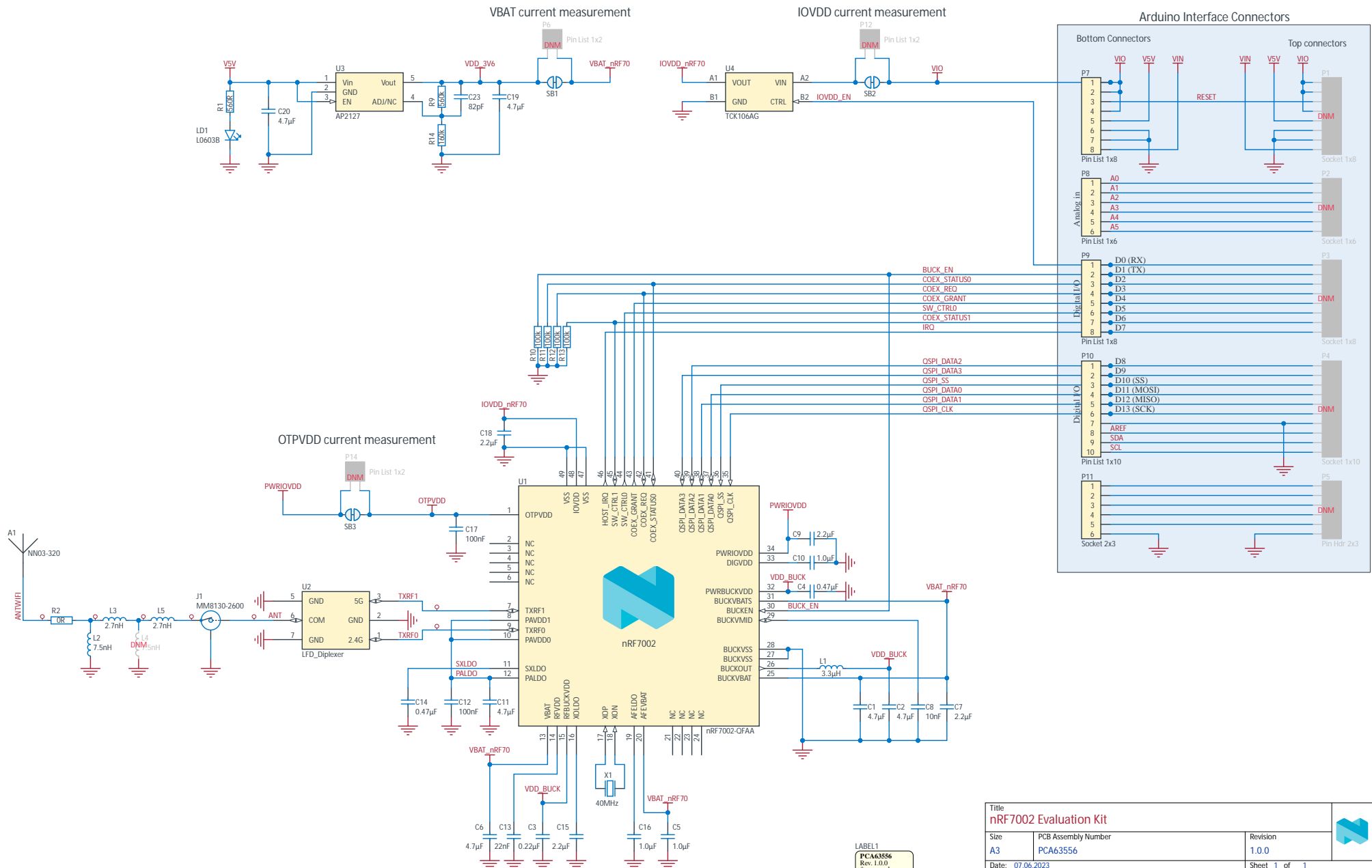


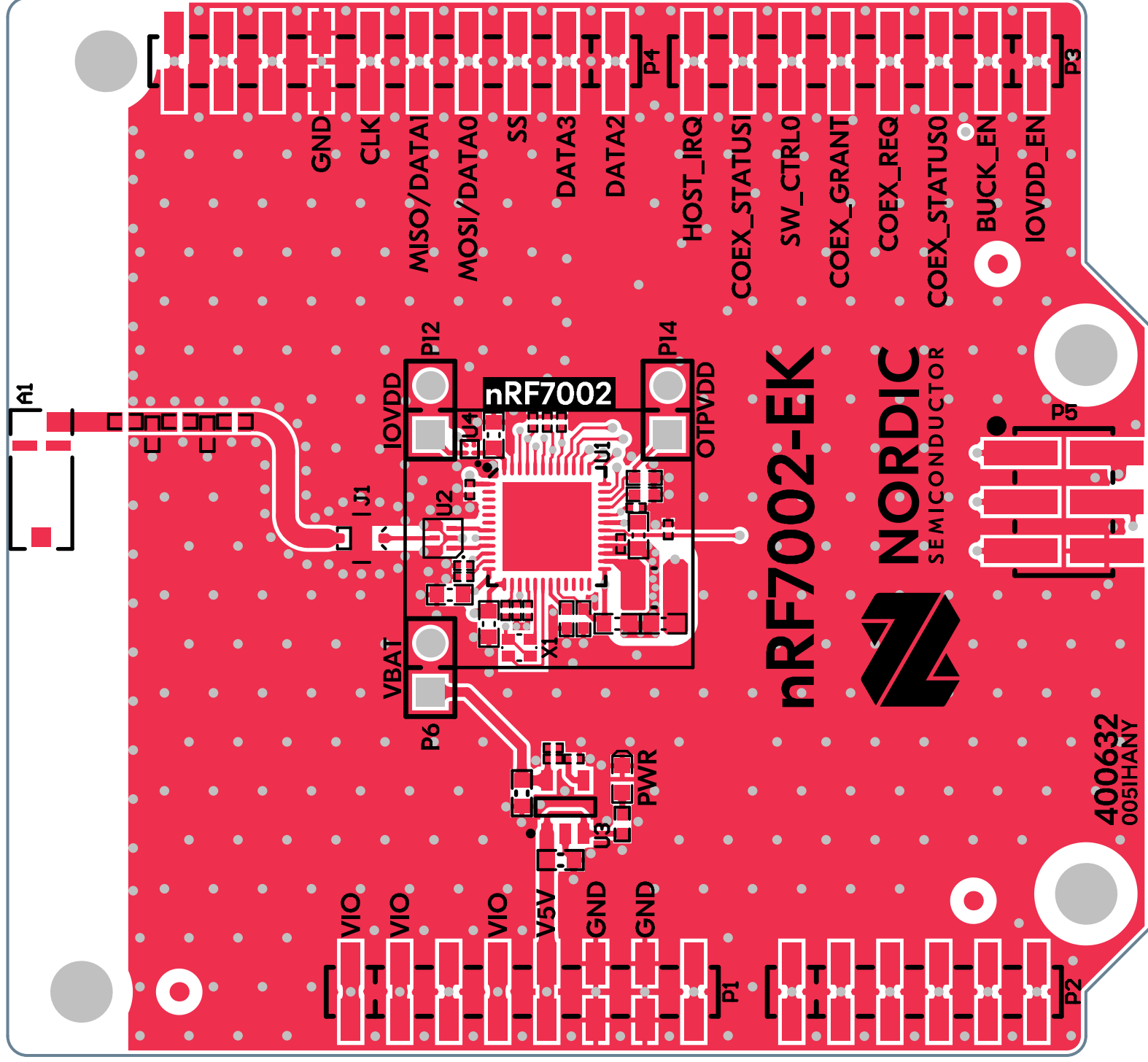
Nordic Semiconductor ASA

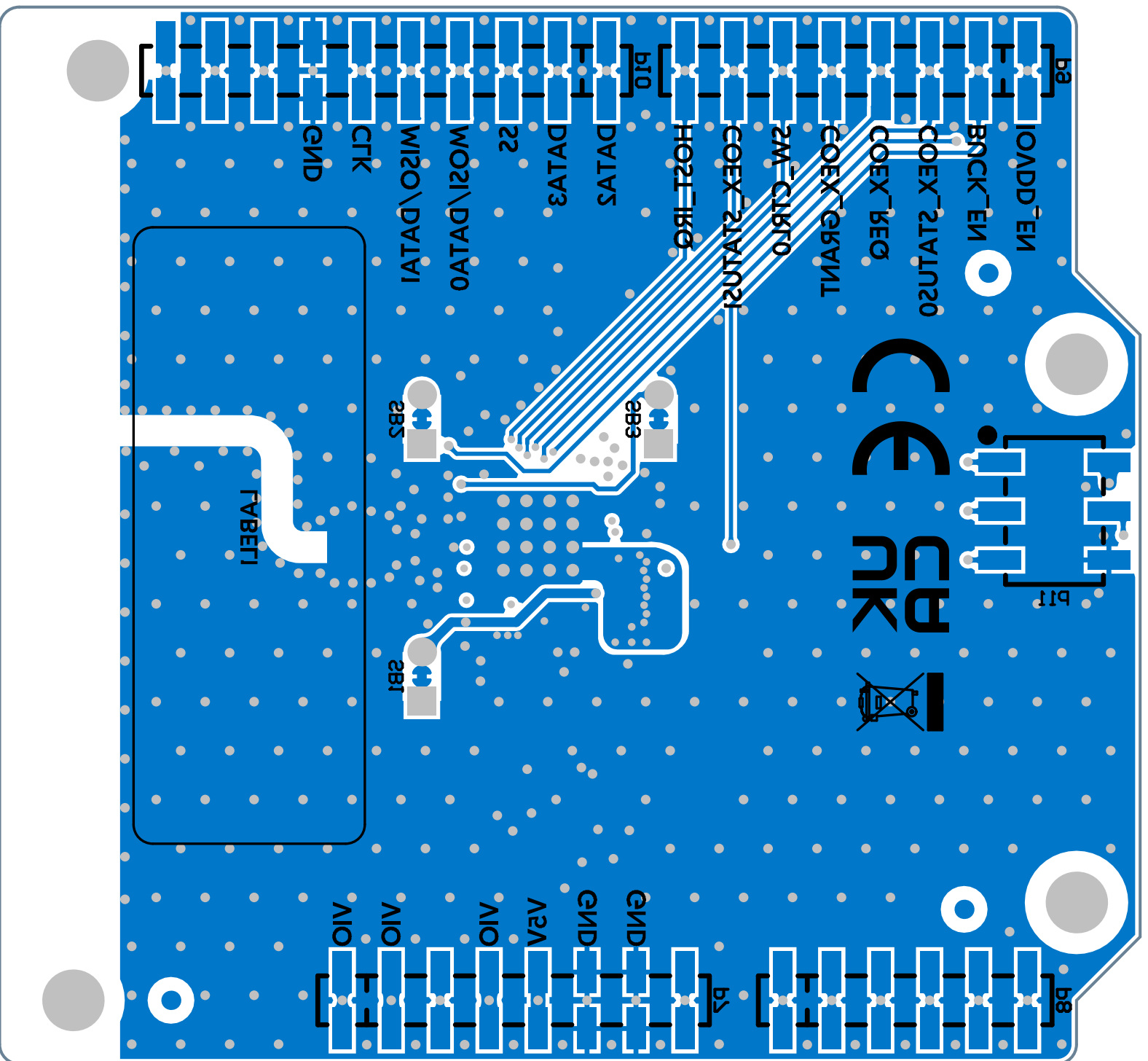
nRF7002 Evaluation Kit (PCA63556)

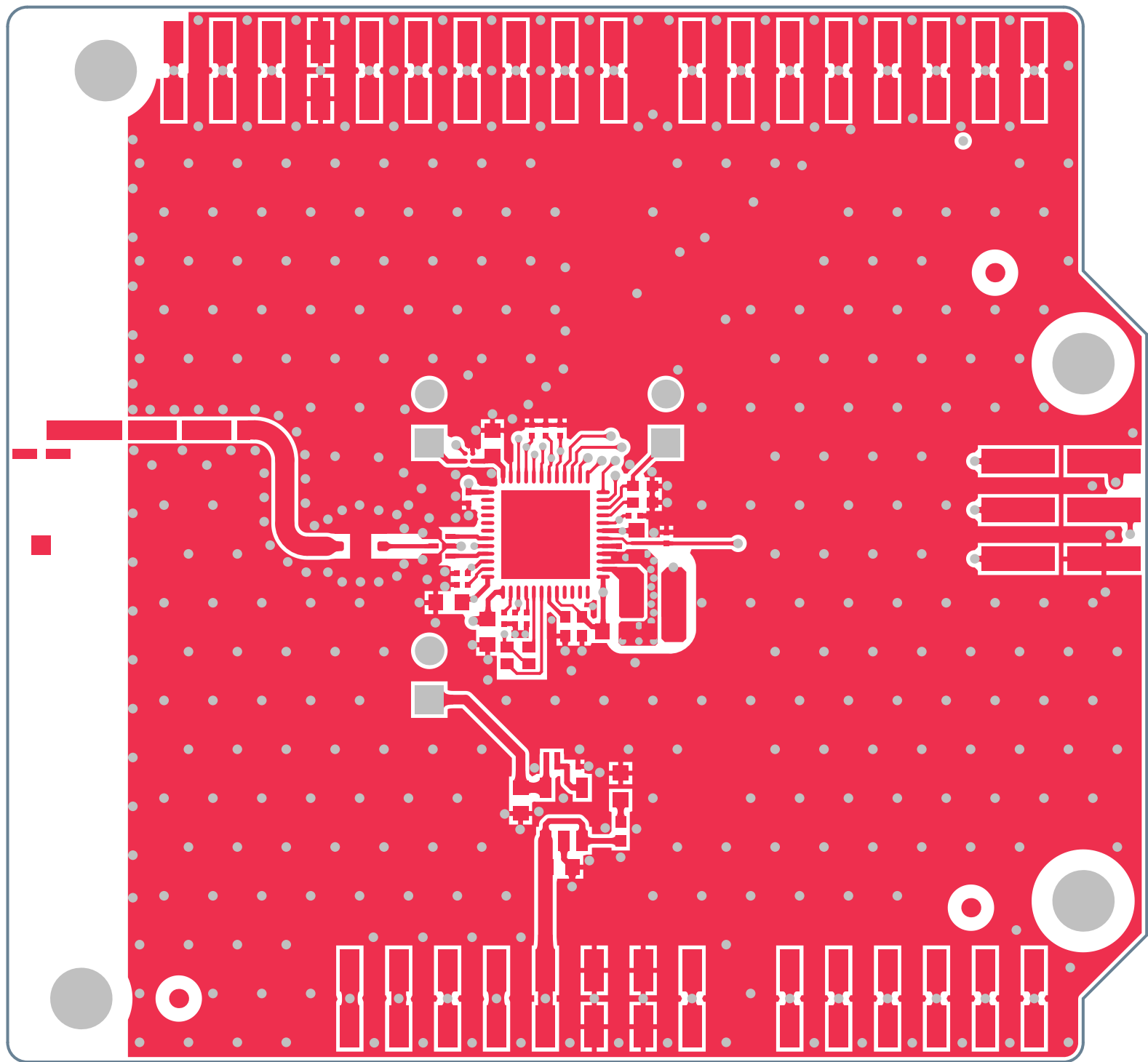


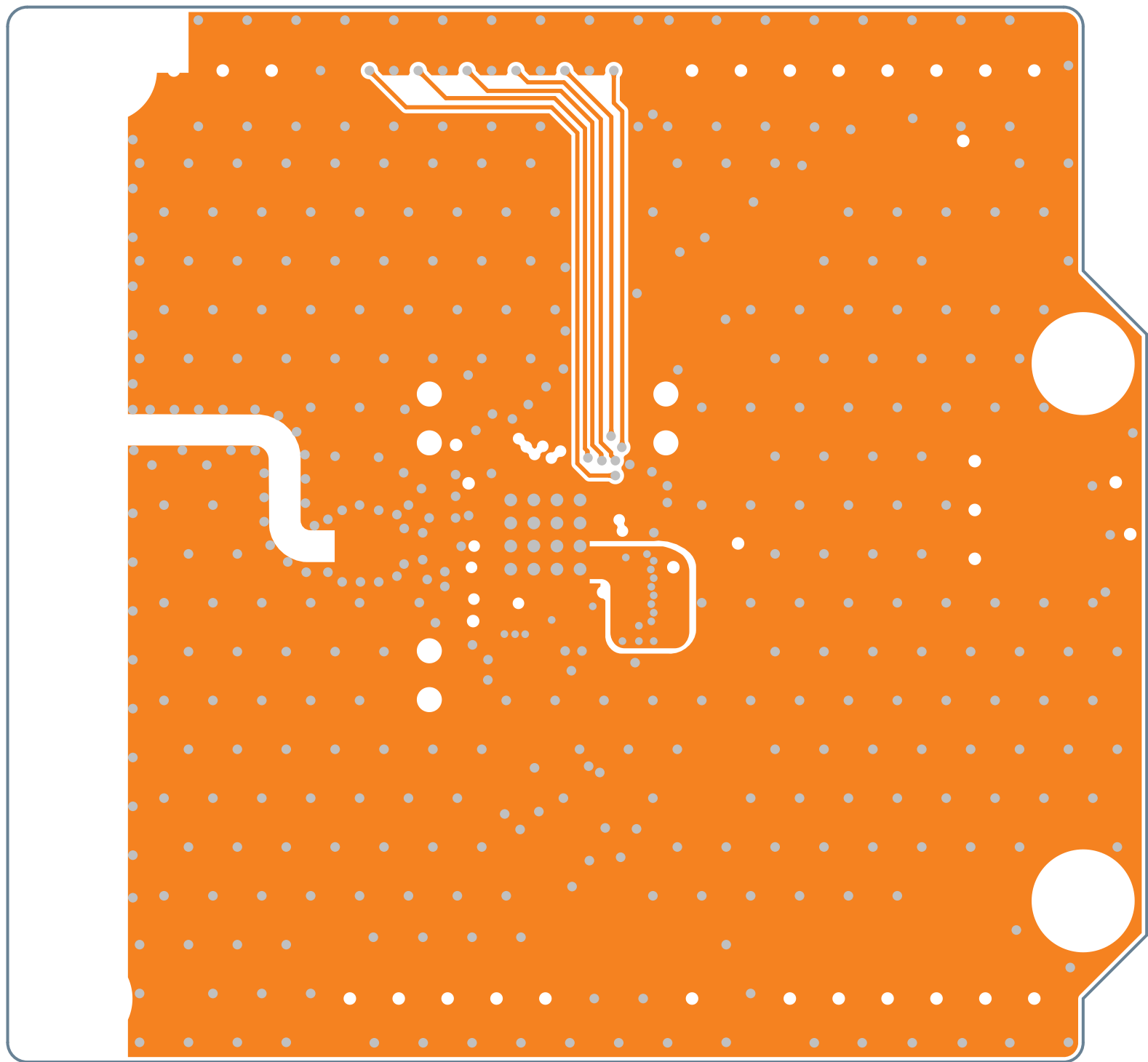
Title nRF7002 Evaluation Kit		Revision 1.0.0	
Size A3	PCB Assembly Number PCA63556	Sheet 1 of 1	
Date: 07.06.2023		Drawn By: HANY	
File: pca63556_SchDoc		Classification: Public	

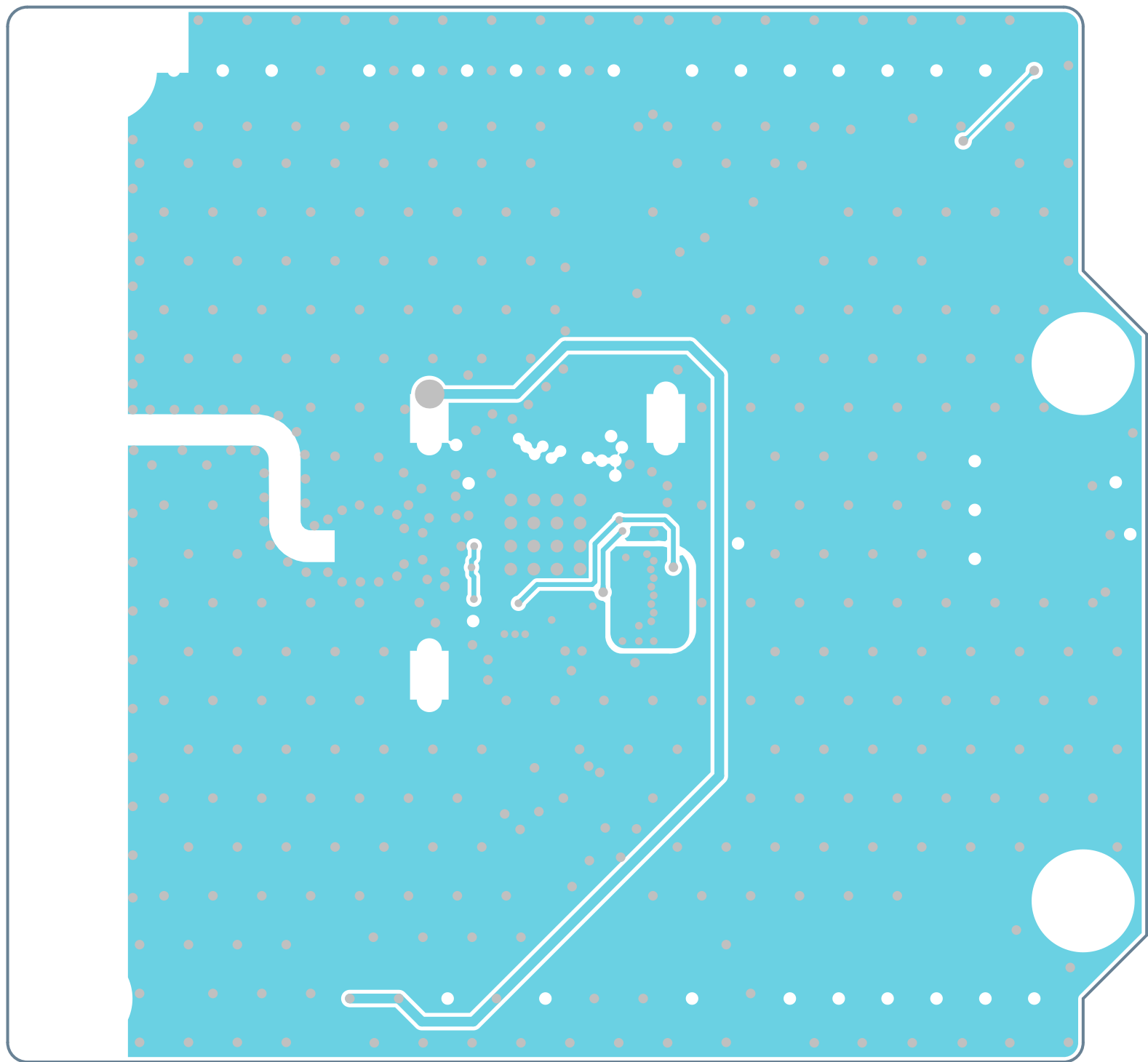


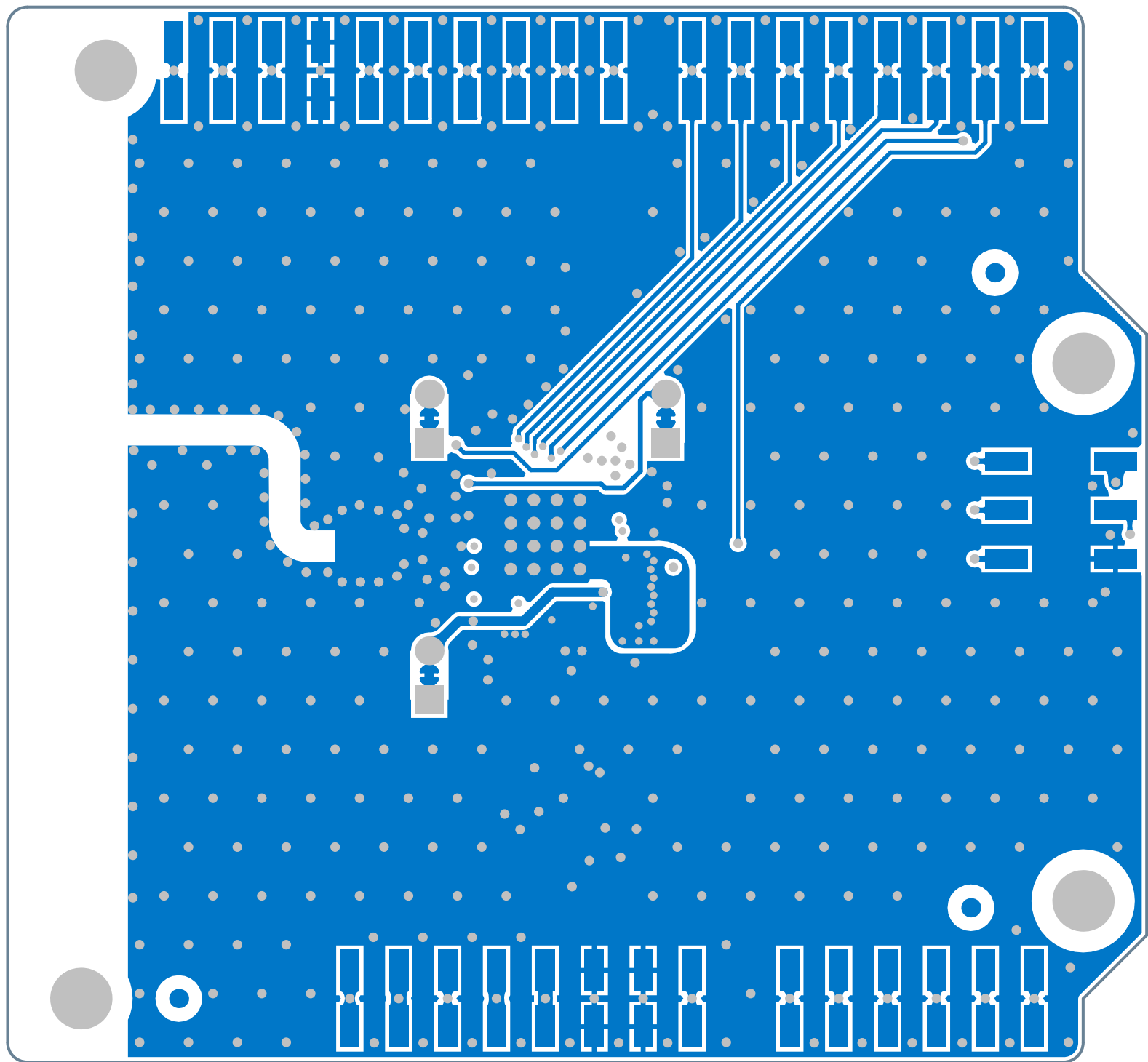












b3

IOADD_EN

BUCK_EN

COEX_2V1IN20

COEX_REQ

COEX_GRAVIL

2M_CLRTO

COEX_2V1IN21

HO2L_IRQ

b10

DATA5

DATA3

22

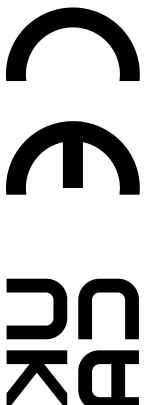
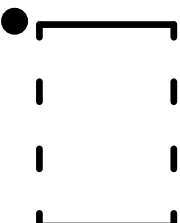
W02I\DATA0

W12O\DATA1

CLK

GND

b11



2B3

2B5

2B1

TVBETI

b8

b5

GND

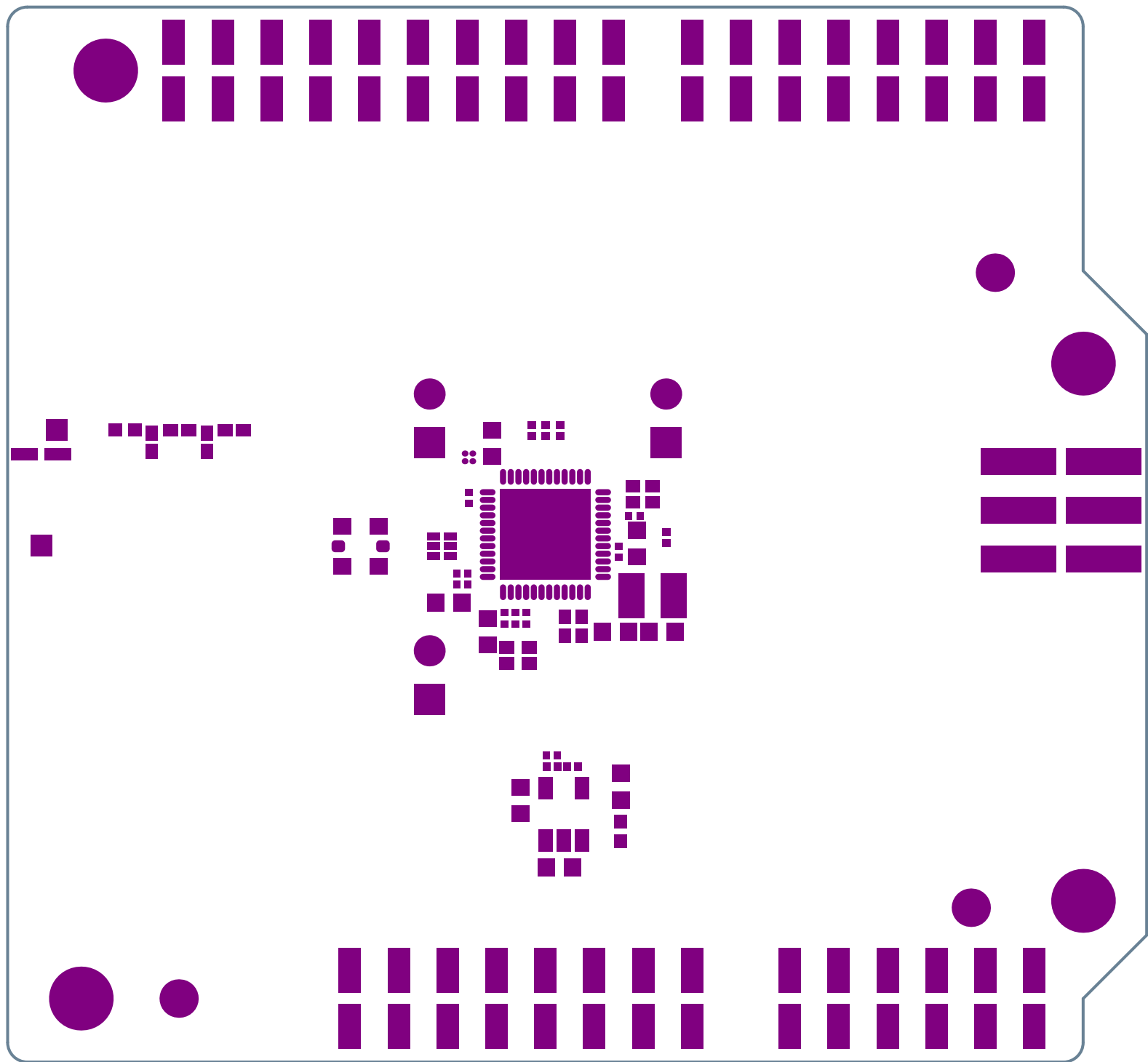
GND

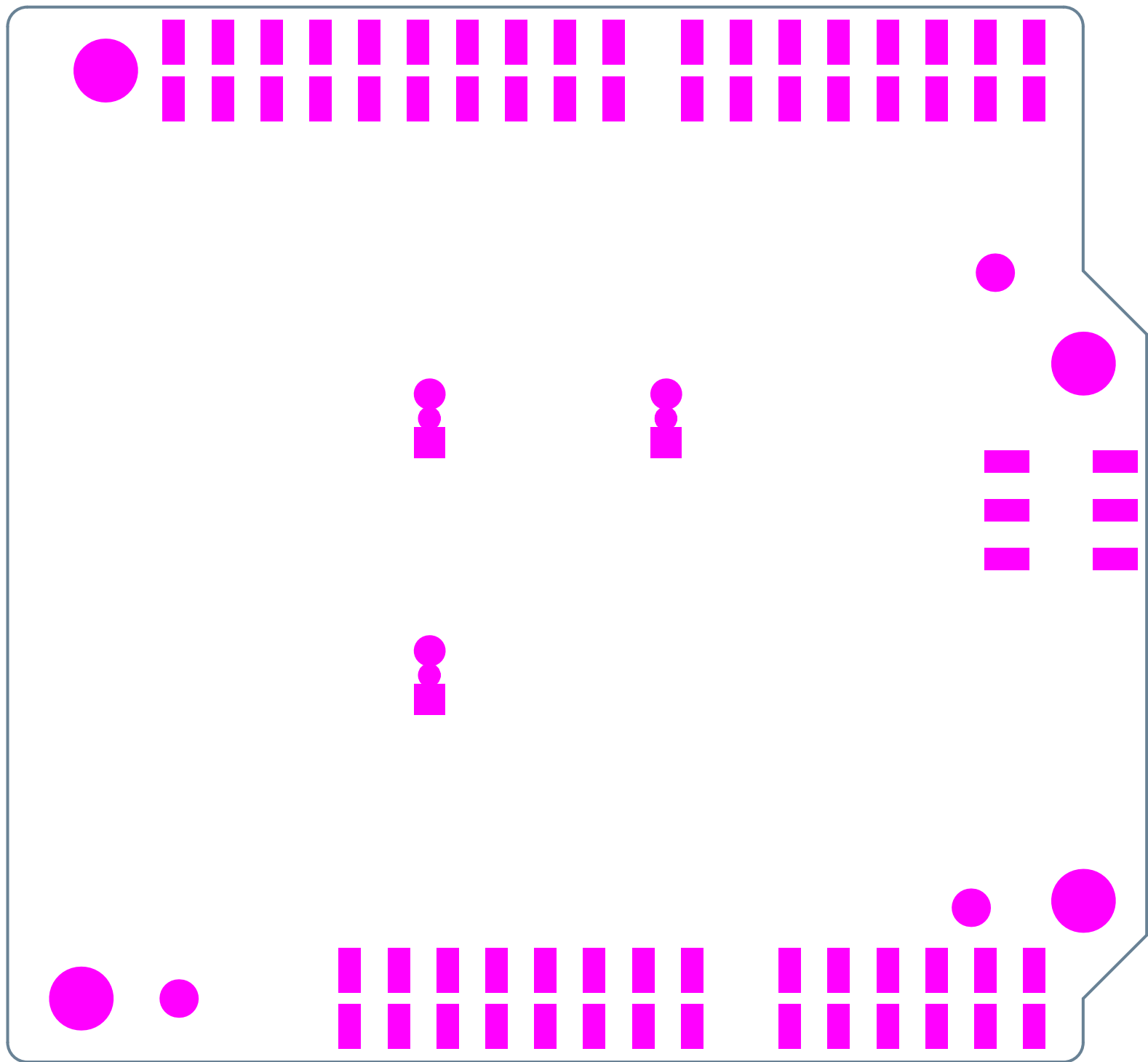
A2A

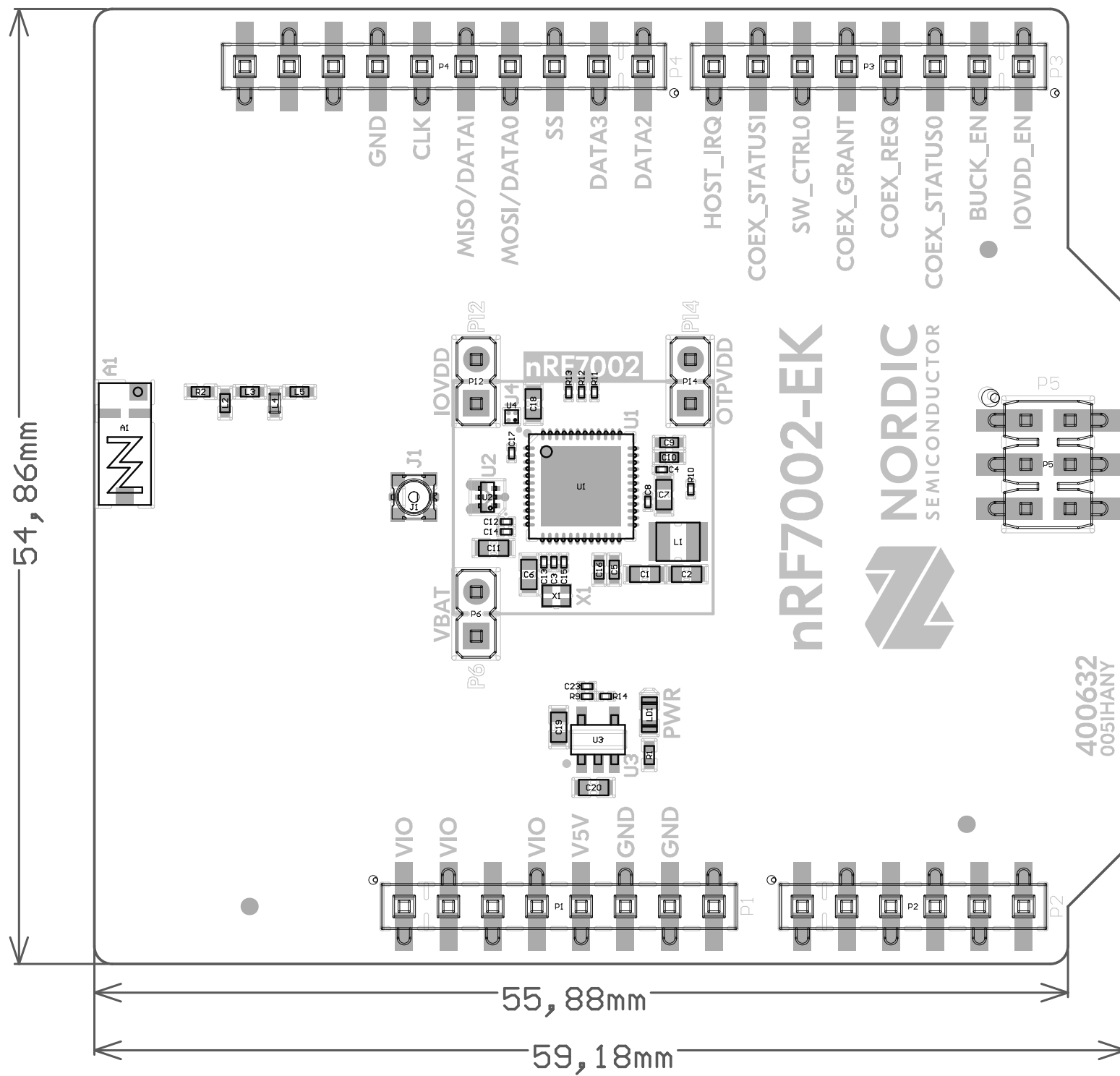
A1O

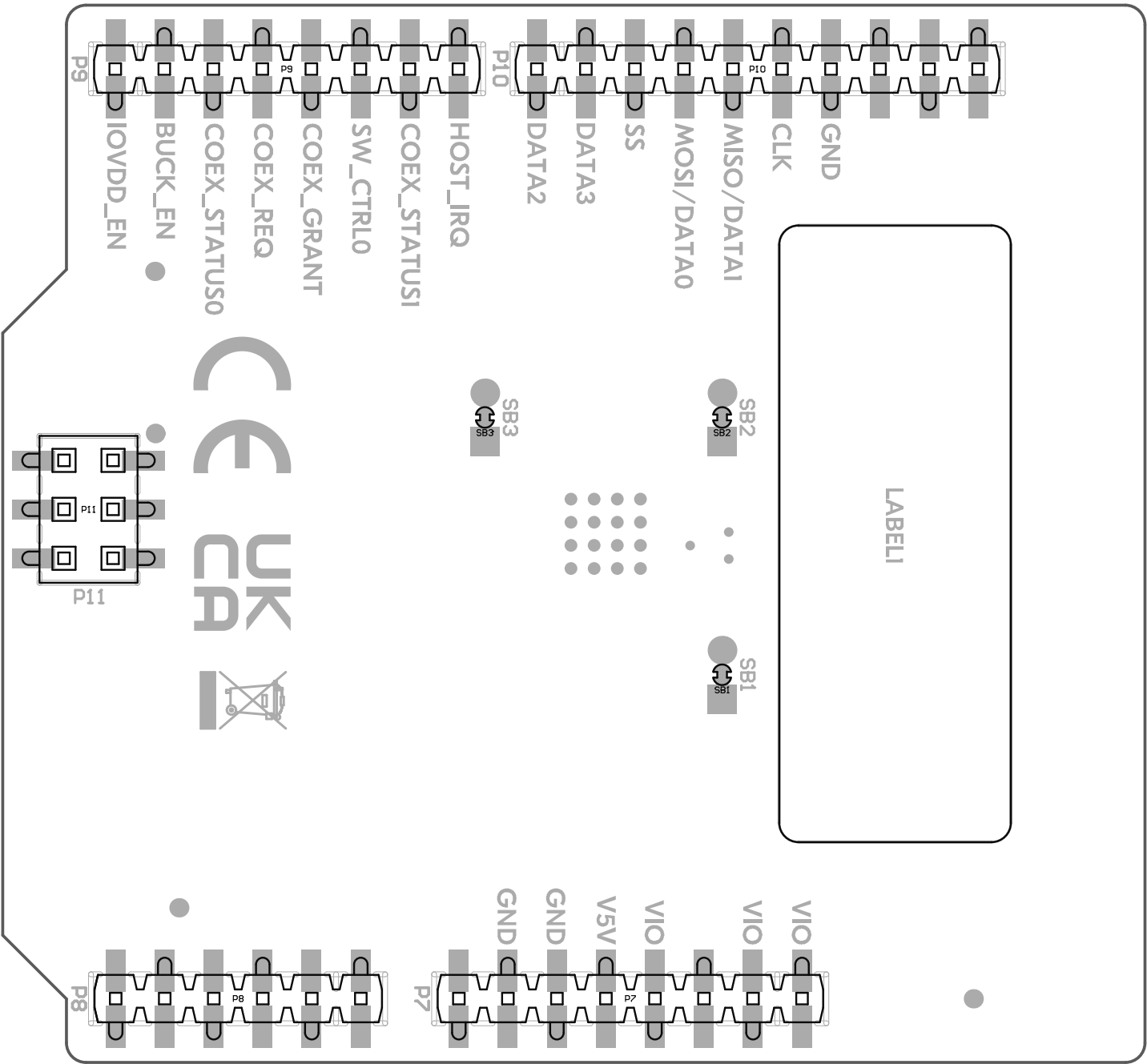
A1O

A1O







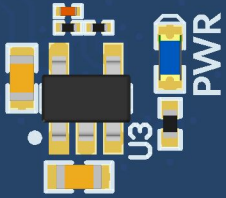




A1



VIO
VIO
VIO
V5V
GND
GND
P1



PWR



VBAT

IOVDD

P12

P6

nRF7002

U2

U4

X1

U1

P14

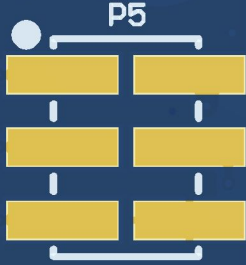
OTPVDD

nRF7002-EK



NORDIC
SEMICONDUCTOR

400632
005IHANY



P5

GND

CLK

MISO/DATA1

MOSI/DATA0

SS

DATA3

DATA2

P4

HOST_IRQ

COEX_STATUS1

SW_CTRL0

COEX_GRANT

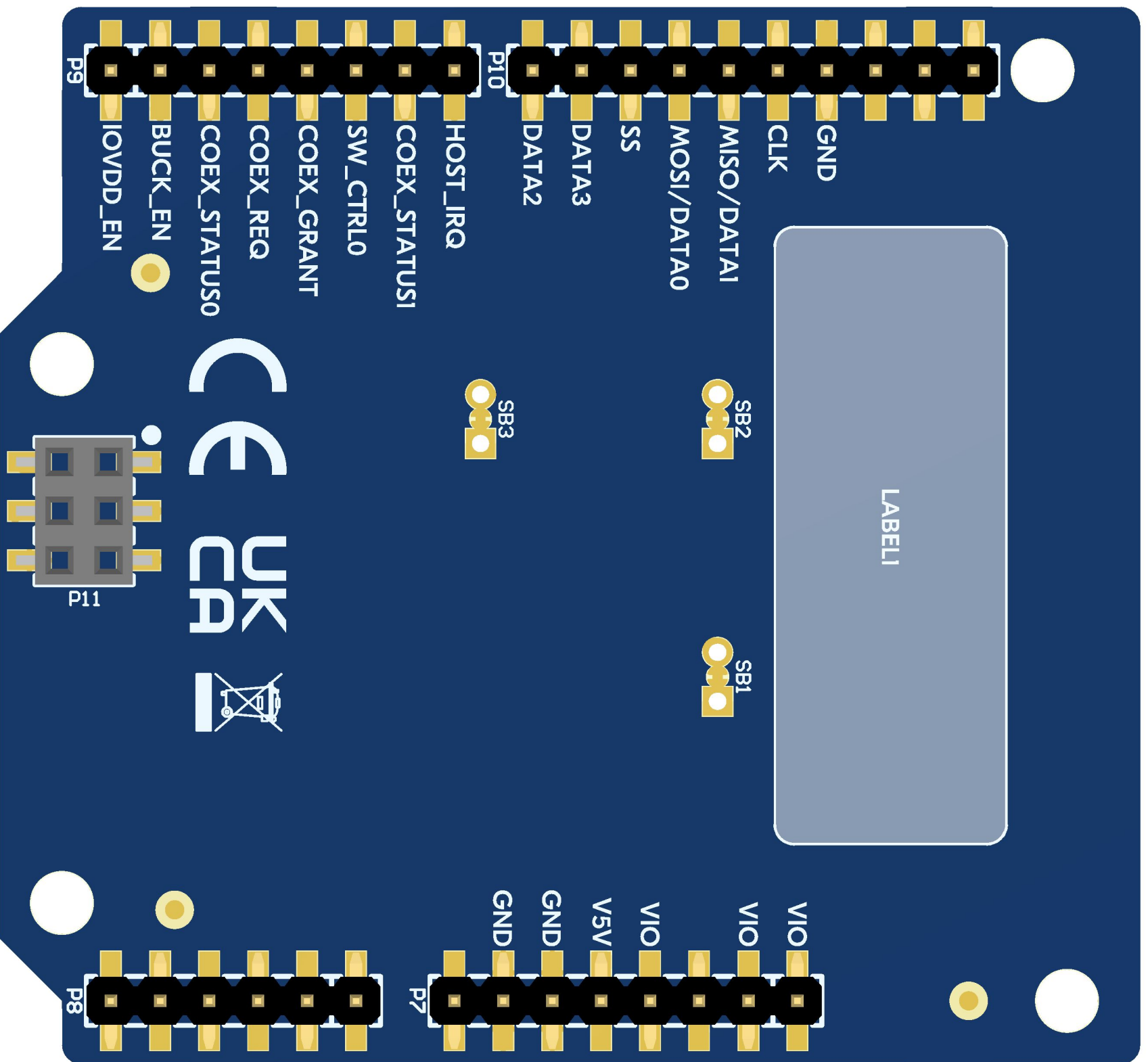
COEX_REQ

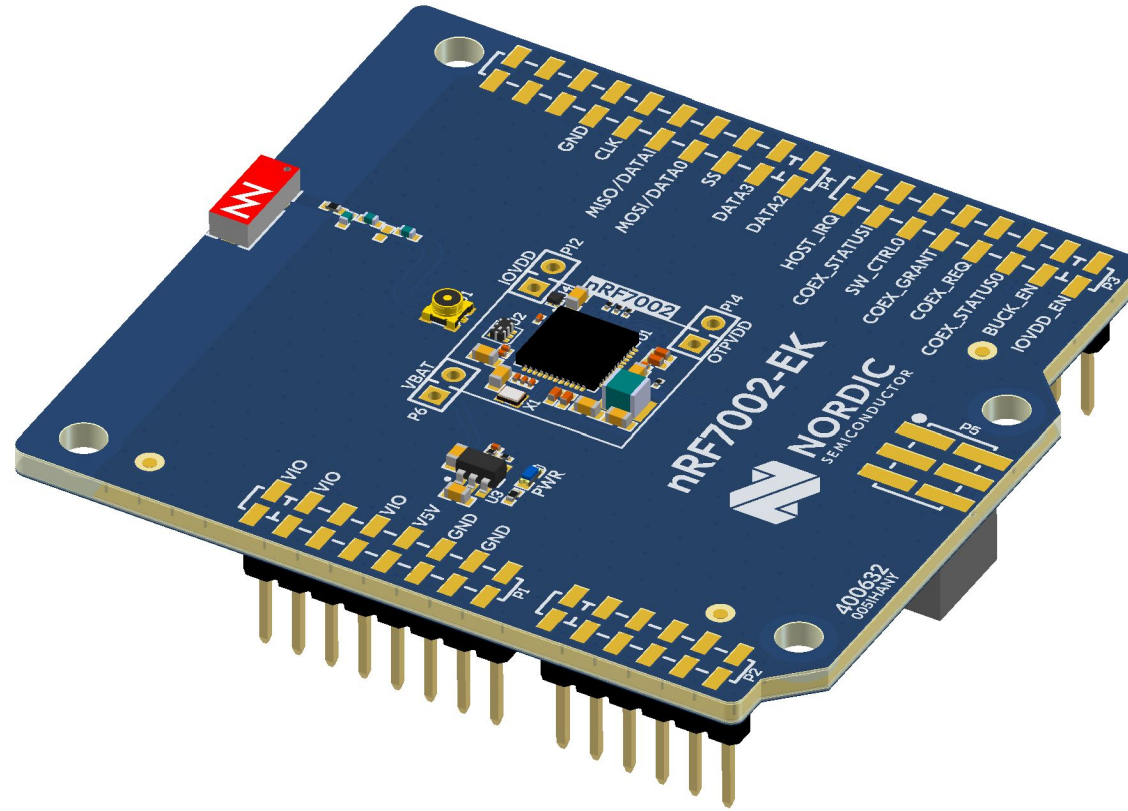
COEX_STATUS0

BUCK_EN

IOVDD_EN

P3





Bill of Materials

Product Name: nRF7002 Evaluation Kit
Board: PCA63556
Version: 1.0.0

Creation Date: 07.06.2023

Designator	Value	Description	Footprint Doc	Manufacturer	Manufacturer Part Number	Fitted	Quantity
A1	NN03-320	Dual-Band GNSS and Wi-Fi/BluetoothAntenna	NN03-320	Ignion	NN03-320	Fitted	1
C1, C2, C6, C11	4.7µF	Capacitor, Ceramic, 4.7µF 25V X6S 0603,±10%	0603	Murata	GRM188C81E475KE11	Fitted	4
C3	0.22µF	Capacitor, Ceramic, 0.22µF 10V X5R 0201, ±10%	0201	Murata	GRM033R61A224KE90	Fitted	1
C4, C14	0.47µF	Capacitor, Ceramic, 0.47µF 6.3V X5R 0201,±10%	0201	Murata	GRM033R60J474KE90	Fitted	2
C5	1.0µF	Capacitor, Ceramic, 1.0µF 35V X5R 0402,±10%	0402	Murata	GRM155R6YA105KE11	Fitted	1
C7, C18	2.2µF	Capacitor, Ceramic, 2.2µF 16V X7S 0603,±10%	0603	Murata	GRM188C71C225KE11	Fitted	2
C8	10nF	Capacitor, Ceramic, 10nF 16V X7R 0201,±10%	0201	Murata	GRM033R71C103KE14	Fitted	1
C9	2.2µF	Capacitor, Ceramic, 2.2µF 25V X5R 0201,±10%	0402	Murata	GRM155R61E225KE11	Fitted	1
C10	1.0µF	Capacitor, Ceramic, 1.0µF 16V X6S 0402,±10%	0402	Murata	GRM155C81C105KE11D	Fitted	1
C12, C17	100nF	Capacitor, Ceramic, 100nF 16V X7S 0201,±10%	0201	Murata	GRM033C71C104KE14	Fitted	2
C13	22nF	Capacitor, Ceramic, 22nF 10V X5R 0201,±10%	0201	Murata	GRM033R61A223KE84	Fitted	1
C15	2.2µF	Capacitor, Ceramic, 2.2µF 10V X5R 0201,±10%	0201	Murata	GRM033R61A225KE47	Fitted	1
C16	1.0µF	Capacitor, Ceramic, 1.0µF 10V X7S 0402,±10%	0402	Murata	GRM155C71A105KE11	Fitted	1
C19, C20	4.7µF	Capacitor, MLCC	0603	Murata	GRM188Z71A475KE15J	Fitted	2
C23	82pF	Chip Cap 0201, 10%/16V C0G/NP0	0201	N.A.	N.A.	Fitted	1
J1	MM8130-2600	Coaxial Connector with Switch	COAXIAL-SWF	Murata	MM8130-2600	Fitted	1
L1	3.3µH	Inductor, 1A, ±20%, 200mOhm	1008	Murata	LQM2HPN3R3MGCL	Fitted	1
L2	7.5nH	Inductor, 550mA, ±2%, 240mΩ	0402	Murata	LQG15HS7N5G02D	Fitted	1
L3, L5	2.7nH	Inductor, 800mA, ±2%, 120mΩ	0402	Murata	LQG15HS2N7B02D	Fitted	2
LABEL1	12x32mm	PCA version label, stick-on, 12x32mm	Label	Ellico Etikett	68616	Fitted	1
LD1	L0603B	LED, Blue, 0603, 470nm, Vf=3.2V, 80mcd, - 40 to +85°C	0603	Würth Elektronik	150060BS55040	Fitted	1
P7, P9	Pin List 1x8	Pin List 1x8, 2.54mm (100mil), SMD	LIST_1x8_SMD	W-CON	1125-1108S0M116R2	Fitted	2
P8	Pin List 1x6	Pin List 1x6, 2.54mm (100mil), SMD	LIST_1x6_SMD	W-CON	1125-1106S0M116R2	Fitted	1
P10	Pin List 1x10	Pin List 1x10, 2.54mm (100mil), SMD	LIST_1x10_SMD	W-CON	1125-1110S0M116R2	Fitted	1
P11	Socket 2x3	Socket 2x3, 2.54mm (100mil), SMD	SOCKET_2x3_SMD	W-CON	2171-203MS0CUNR1	Fitted	1
R1	560R	Resistor, ±1%, 0.063W	0402	N.A.	N.A.	Fitted	1
R2	0R	Resistor, ±5%, 0.063W	0402	N.A.	N.A.	Fitted	1
R9	560k	Resistor, ±1%, 0.05W	0201	N.A.	N.A.	Fitted	1
R10, R11, R12, R13	100k	Resistor, ±1%, 0.05W	0201	N.A.	N.A.	Fitted	4
R14	160k	Resistor, ±1%, 0.05W	0201	N.A.	N.A.	Fitted	1
U1	nRF7002-QFAA	Wi-fi Dual Band Companion chip	QFN-48	Nordic Semiconductor	nRF7002-QFAAB0	Fitted	1
U2	LFD182G45DCJD247	Signal Conditioning 2.4GHz and 5GHz Diplexer	CAF	Murata	LFD182G45DCJD247	Fitted	1
U3	AP2127	IC REG LDO ADJ 0.3A SOT23-5	SOT23-5	Diodes Incorporated	AP2127K-ADJTRG1	Fitted	1
U4	TCK106AG	1.0 A Load Switch IC with Slew Rate Control Driver in Ultra Small Package	WLCSP-4	Toshiba	TCK106AG,LF	Fitted	1
X1	40MHz	XTAL SMD 1612, 40MHz, Cl=8pF, Total Tol: ±10ppm, -30 - 85C	XTAL_1612	Kyocera	CX1612DB40000D0WLLCC	Fitted	1
L4	7.5nH	Inductor, 550mA, ±2%, 240mΩ	0402	Murata	LQG15HS7N5G02D	Not Fitted	0
P1, P3	Socket 1x8	Socket 1x8, 2.54mm (100mil), SMD	SOCKET_1x8_SMD	W-CON	2171-108MS0CUNR1	Not Fitted	0
P2	Socket 1x6	Socket 1x6, 2.54mm (100mil), SMD	SOCKET_1x6_SMD	W-CON	2171-106MS0CUNR1	Not Fitted	0
P4	Socket 1x10	Socket 1x10, 2.54mm (100mil), SMD	SOCKET_1x10_SMD	W-CON	2171-110MS0CUNR1	Not Fitted	0
P5	Pin Hdr 2x3	Pin Header 2x3, 2.54mm (100mil) SMD	HDR_2x3-SMD	W-CON	1125-1203S0M116R1	Not Fitted	0
P6, P12, P14	Pin List 1x2	Pin List 1x2, 2.54mm (100mil)	LIST_1x2	N.A.	N.A.	Not Fitted	0