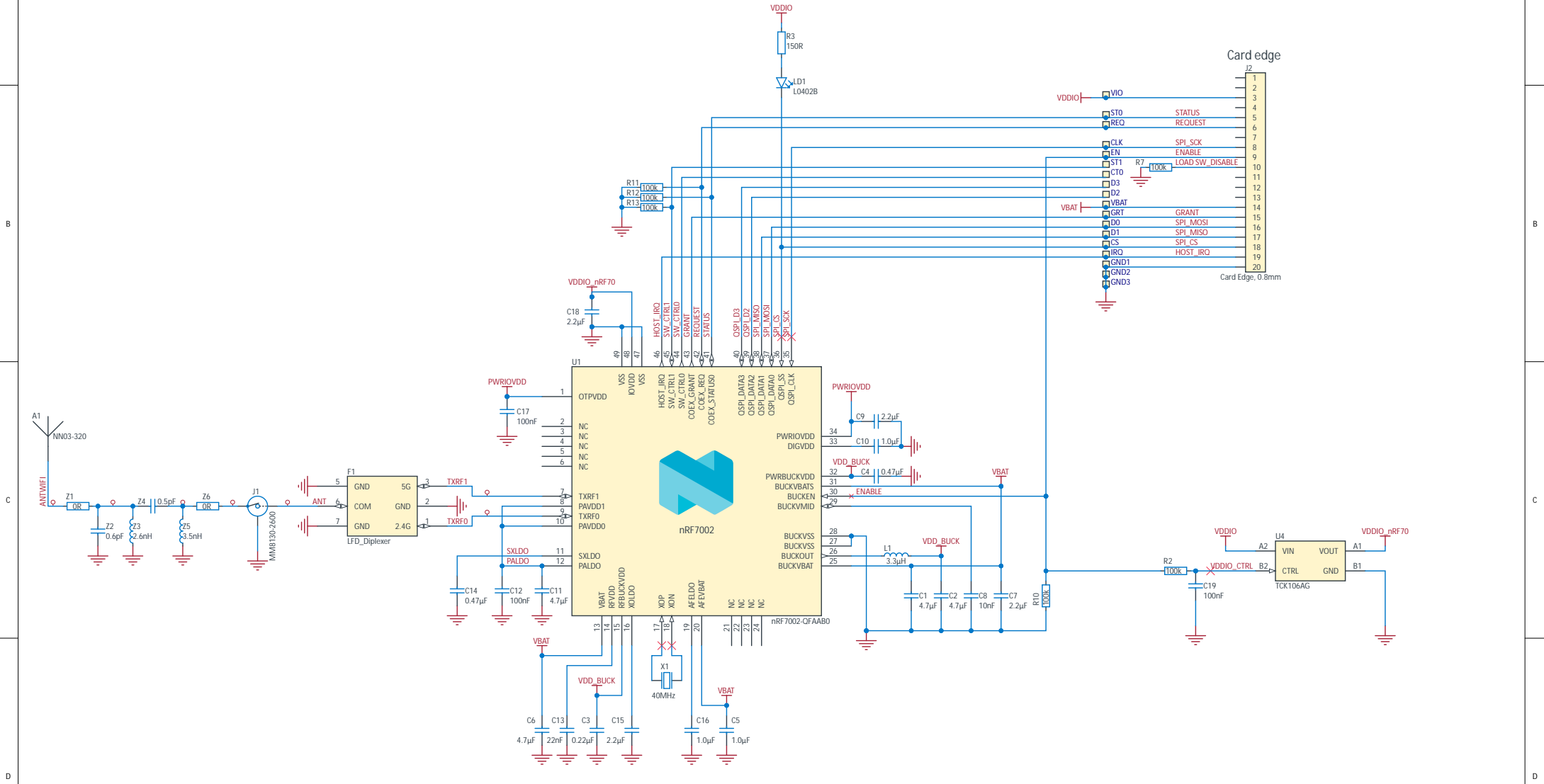


Nordic Semiconductor ASA

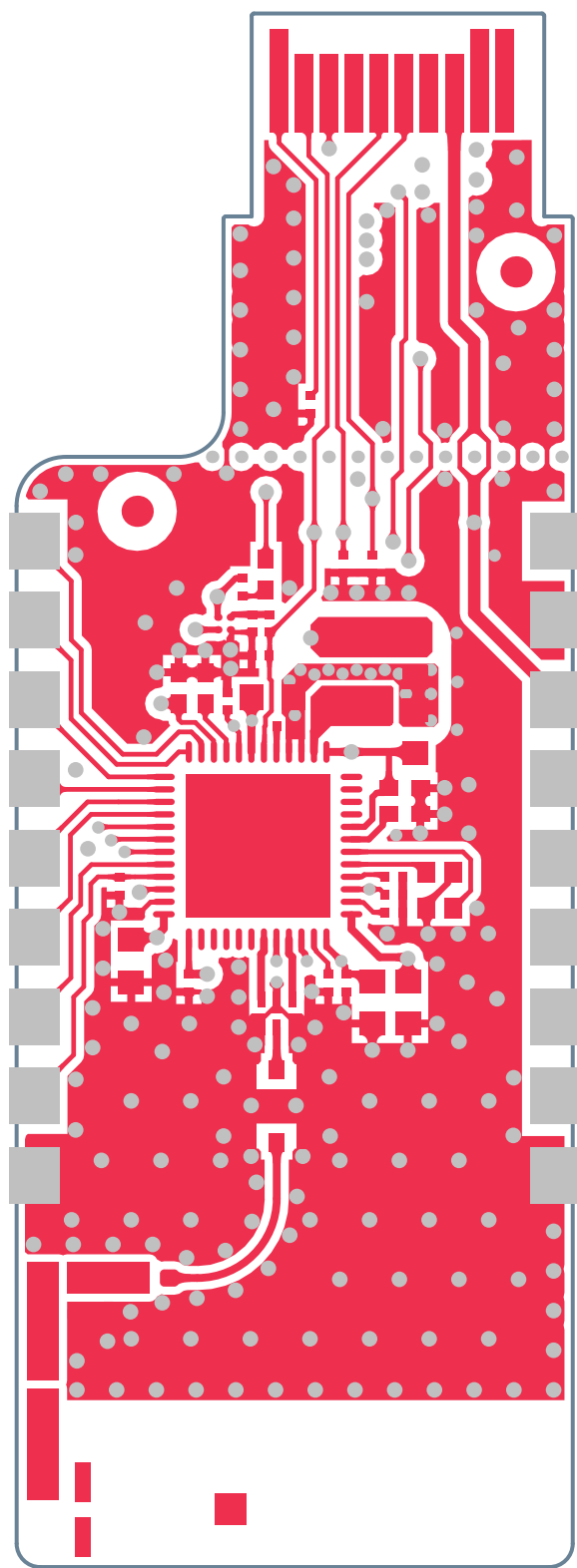
nRF7002 Expansion Board (PCA63561)

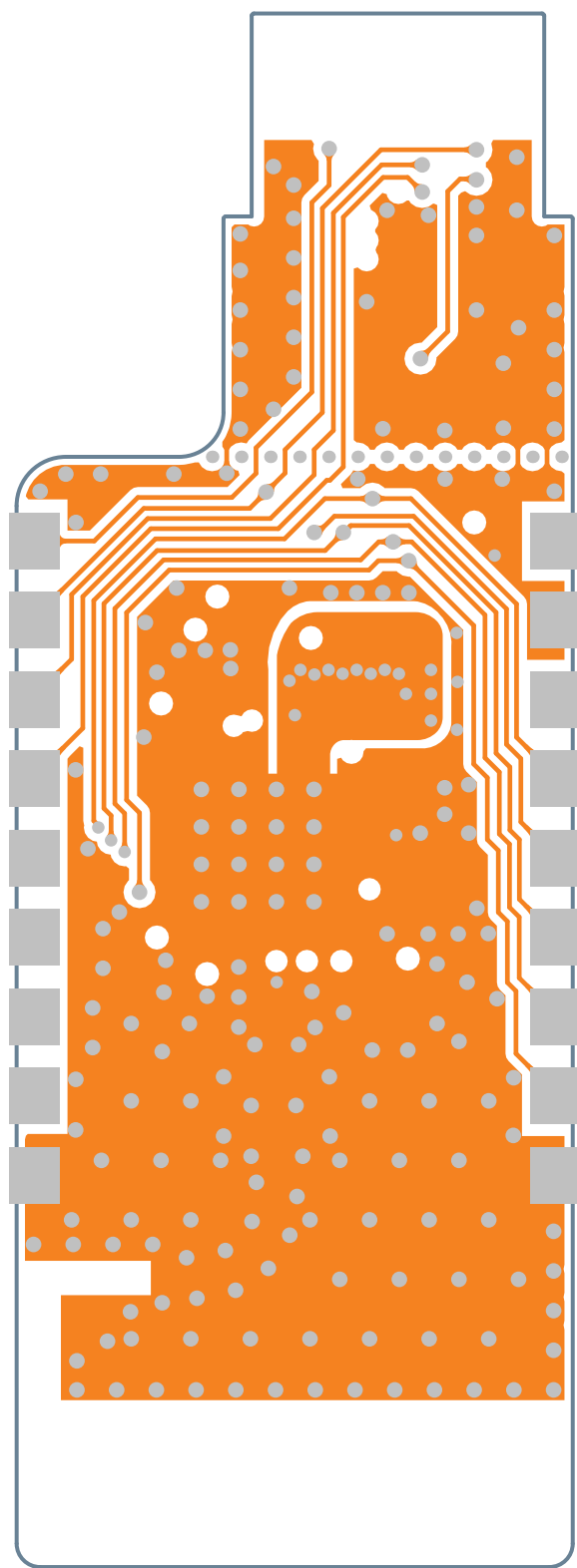


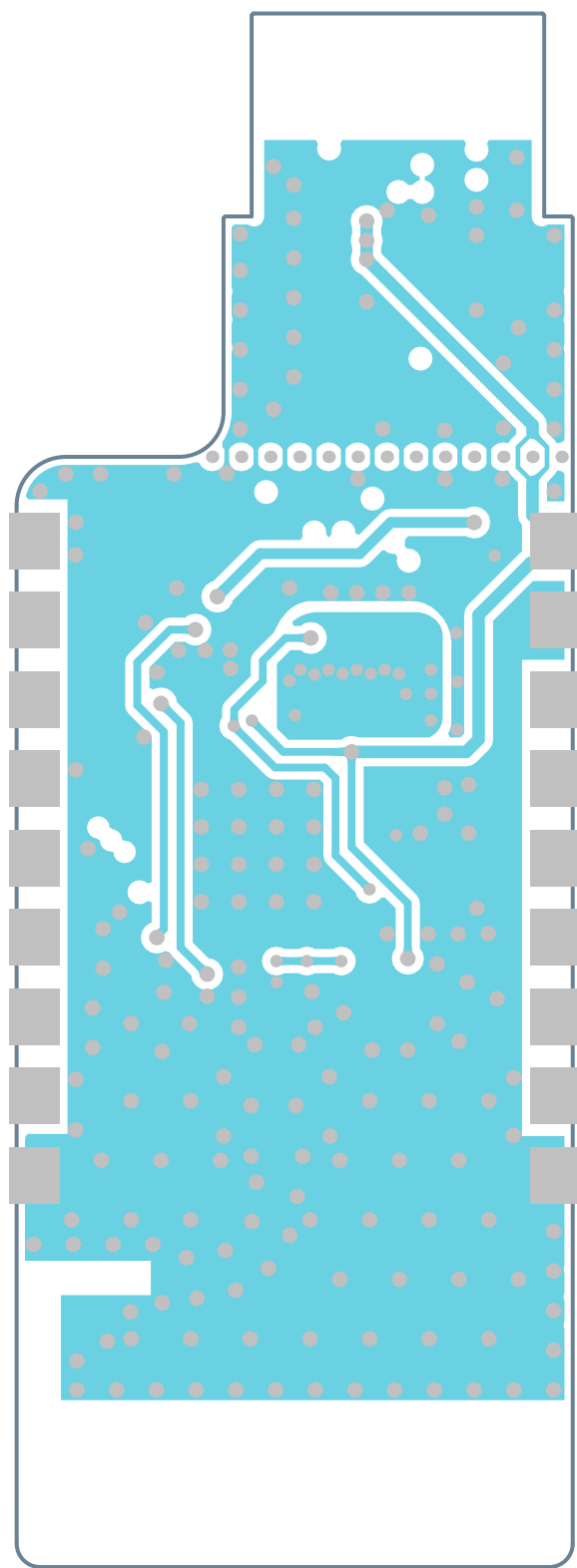
Title nRF7002 Expansion Board		Revision 0.9.0	
Size A3	PCB Assembly Number PCA63561	Sheet 1 of 1	
Date: 22.05.2023		Drawn By: HANY	
File: pca63561 SchDoc		Classification: PUBLIC	

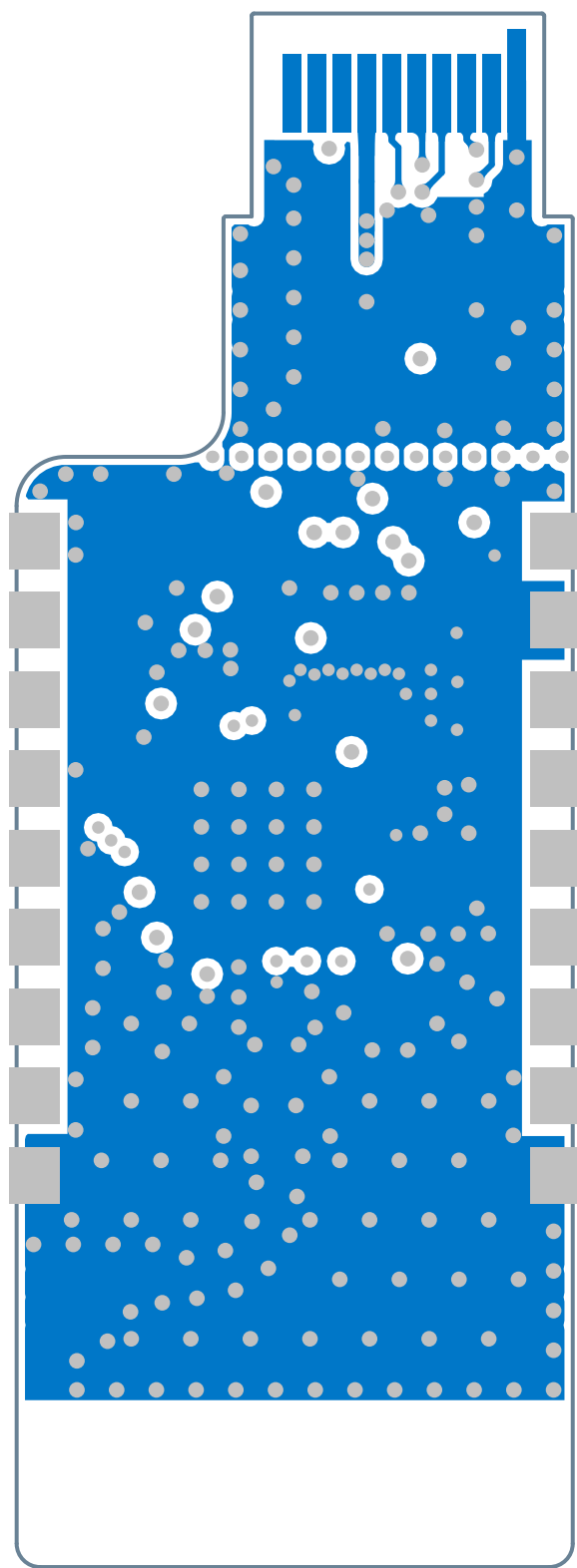
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Rev: 03.9.0
#year.week
#serial number
LABEL 1

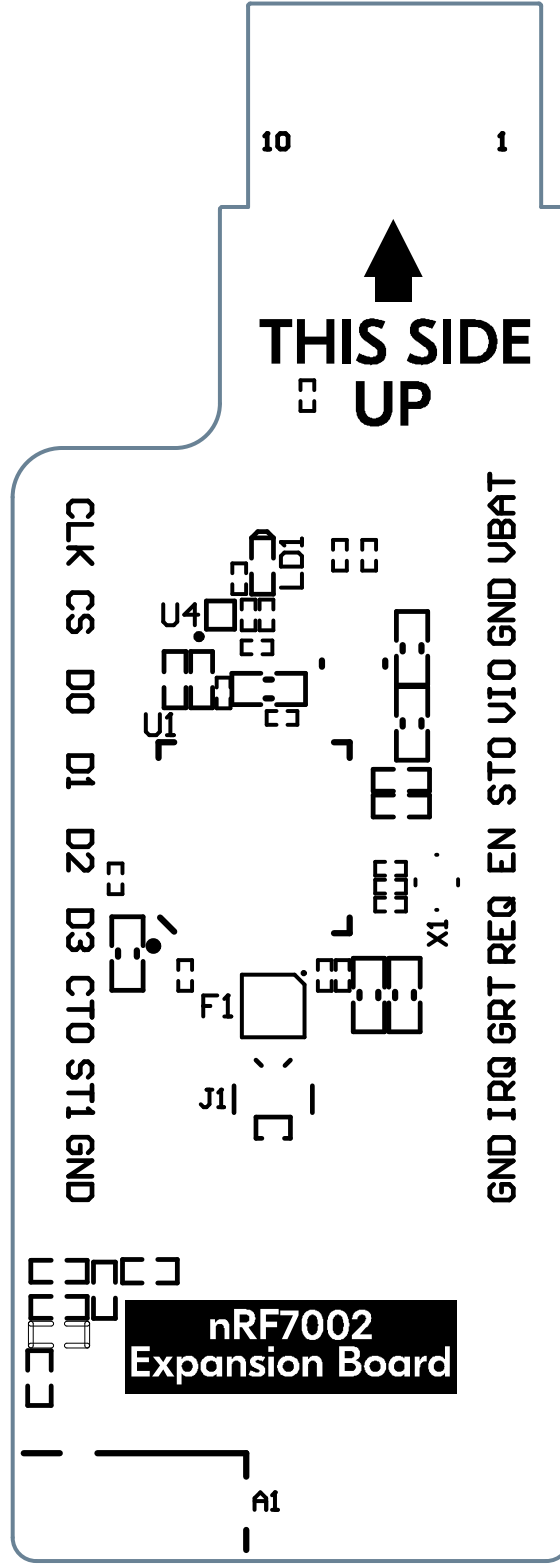




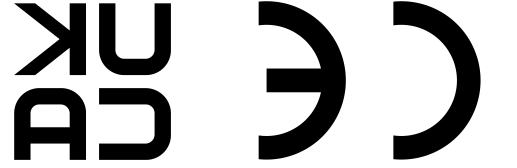








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END 211 C10 - - 20 21 C2 CLK

LIBELI

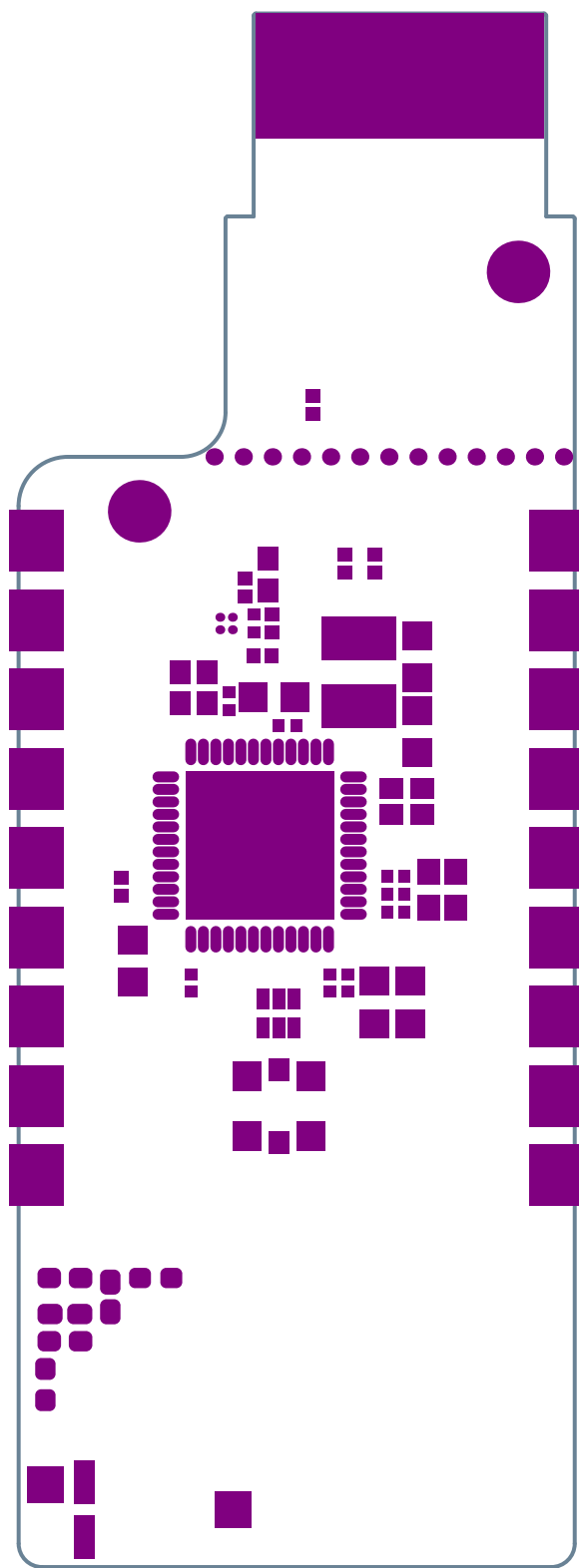
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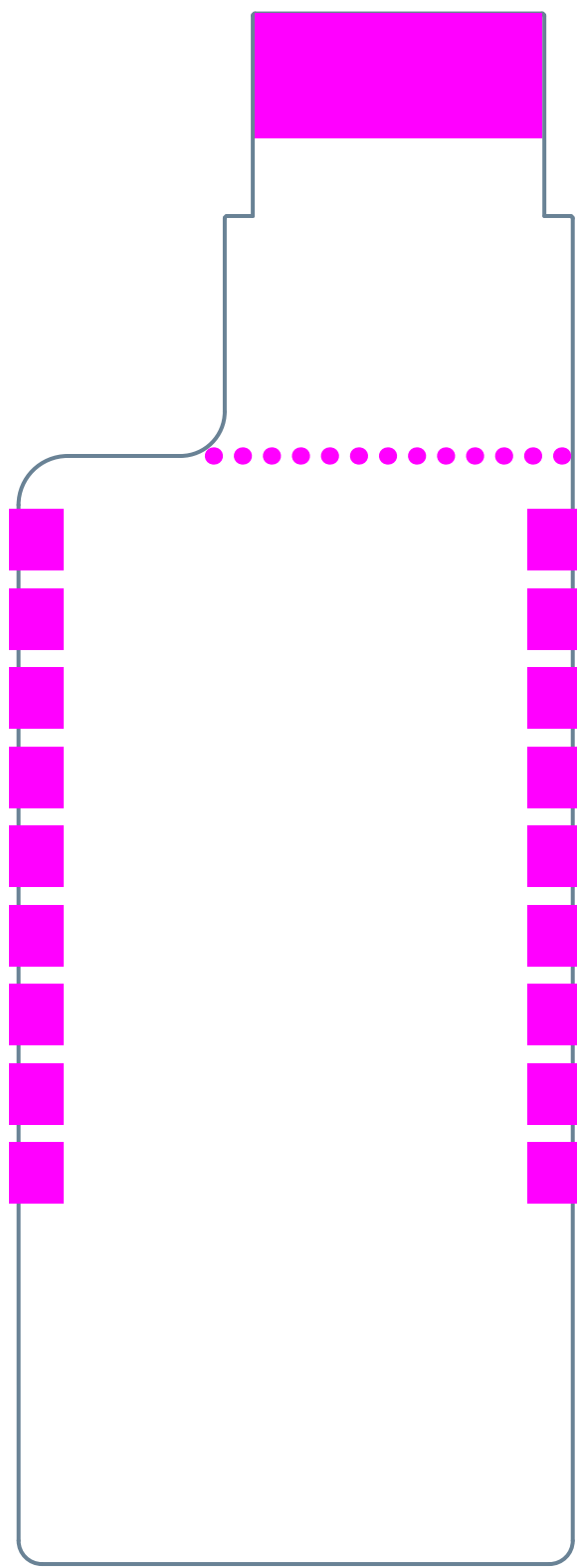
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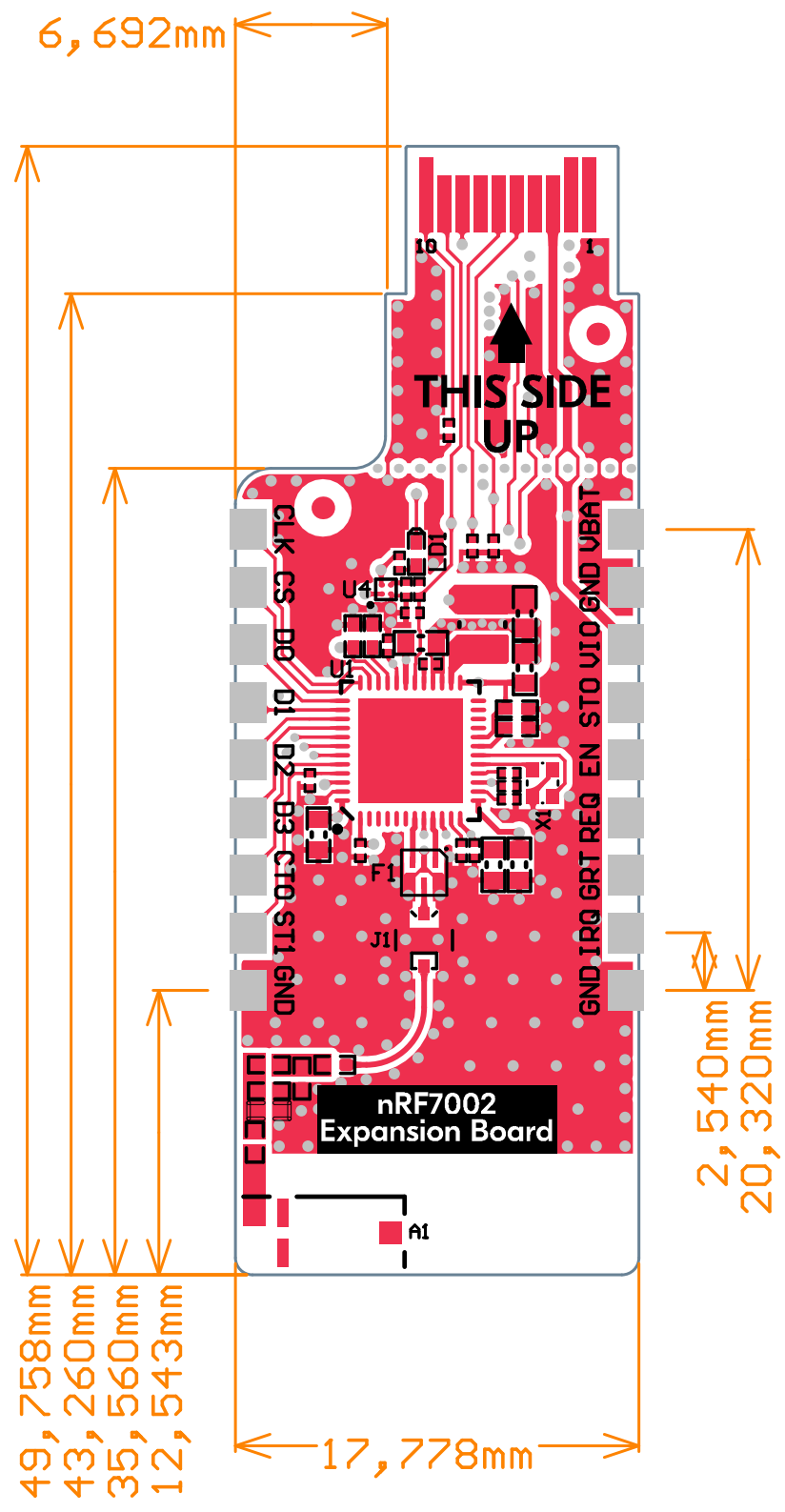


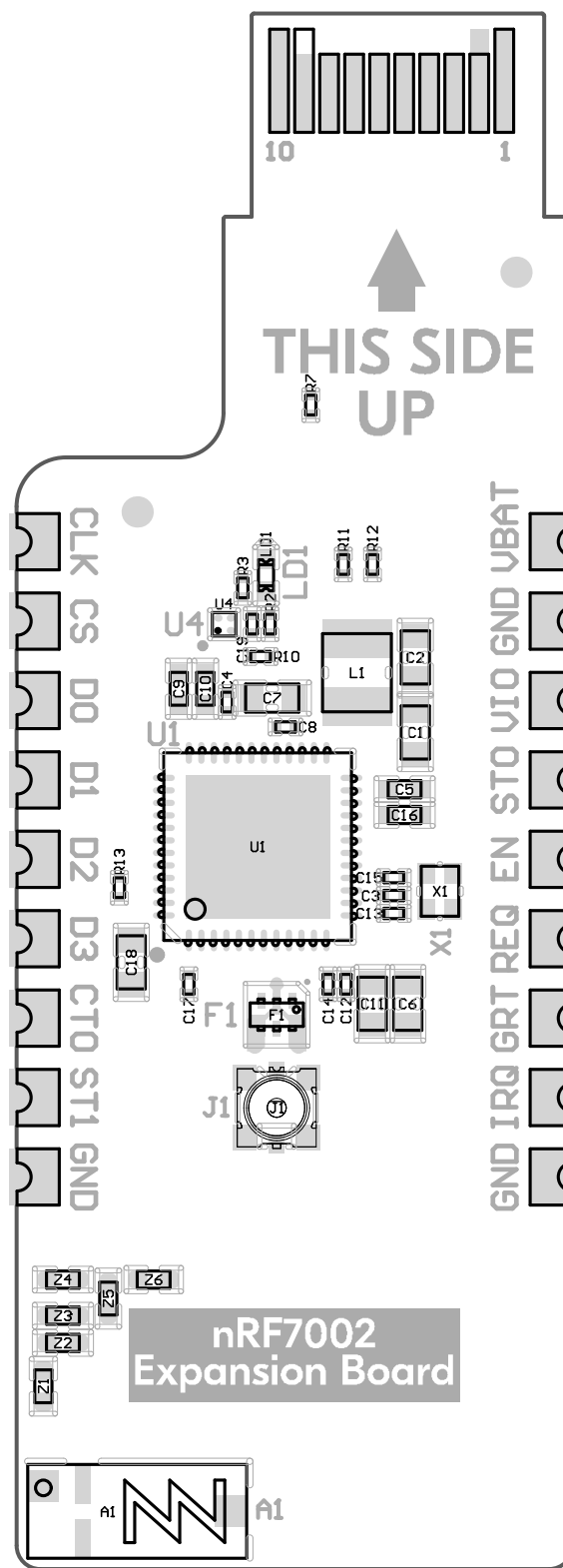
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20 11



UBAT GND VIO STO EN REQ GRT IRQ GND

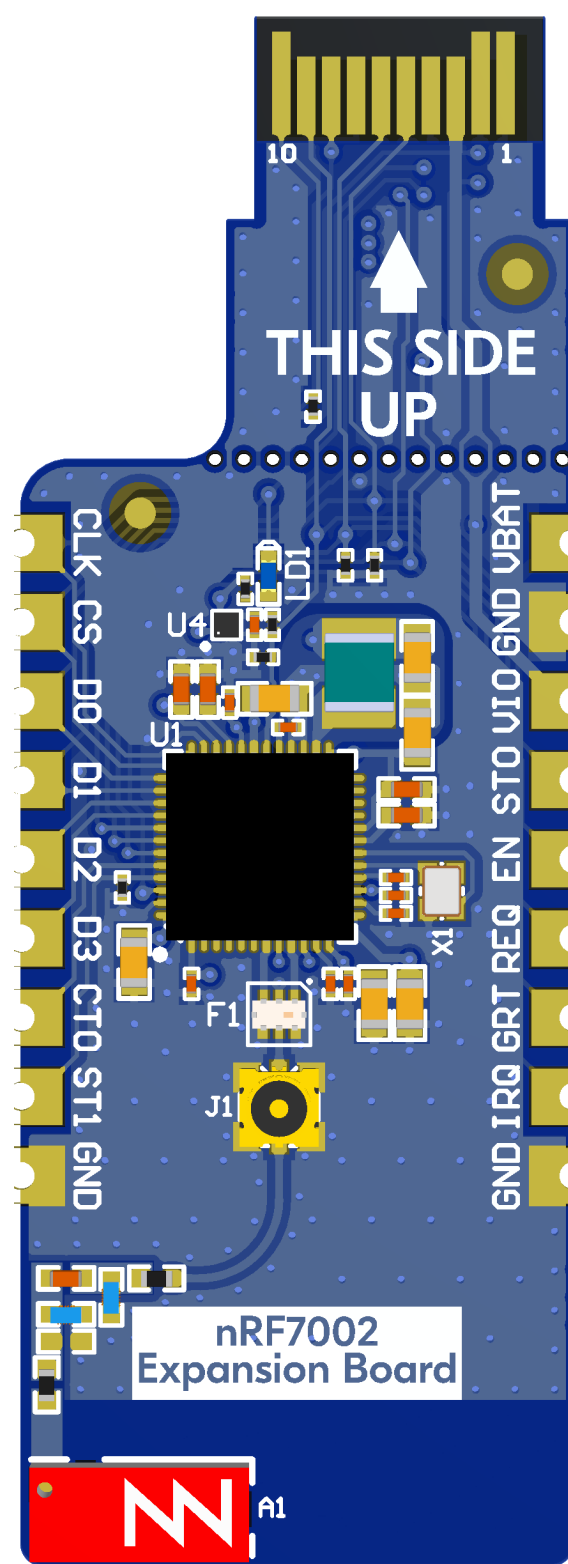
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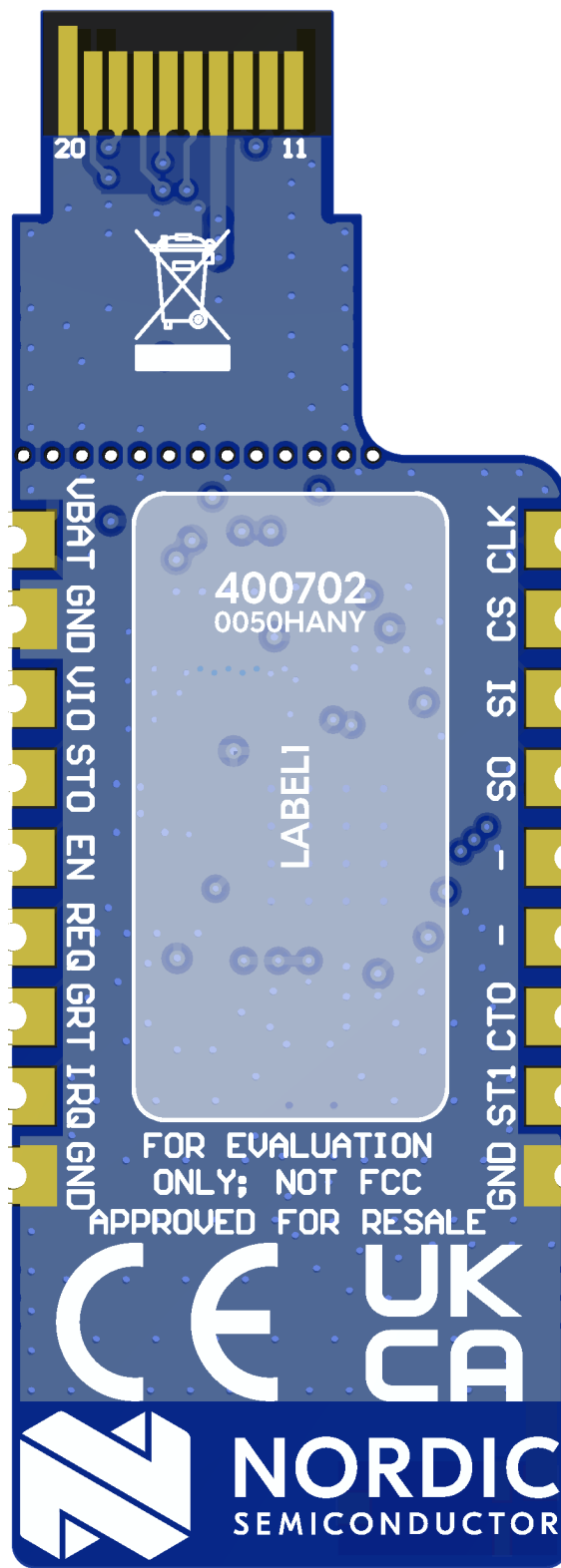
LABEL I
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GND ST1 CTO - - S0 SI CS CLK

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400702
0050HANY

LABEL1

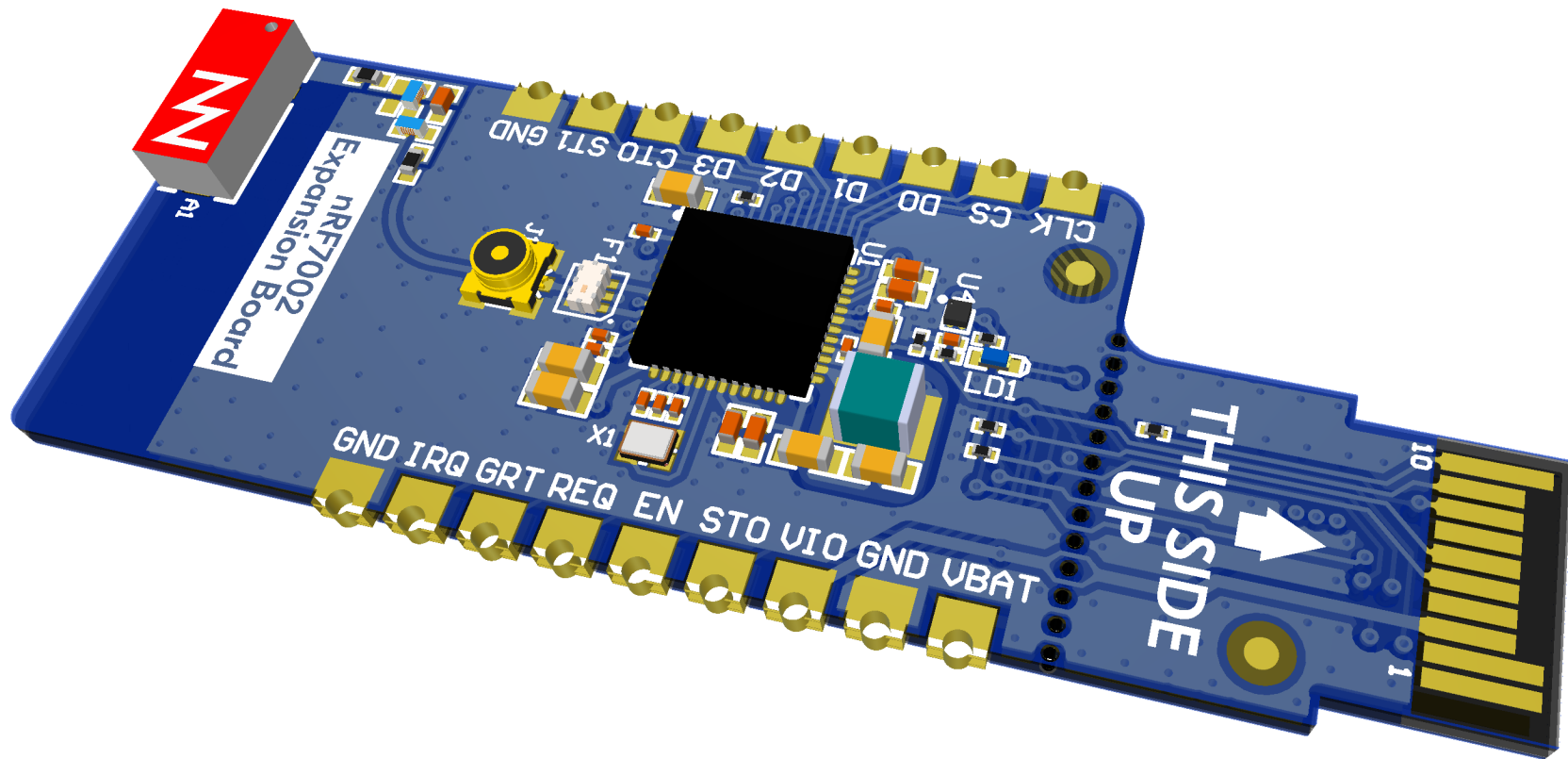
UBAT GND VIO STO EN REQ GRT IRQ GND

GND ST1 CTO - - S0 SI CS CLK

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Bill of Materials

Product Name: nRF7002 Expansion Board
Board: PCA63561
Version: 0.9.0



Creation Date: 30.11.2023

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, C19	100nF	Capacitor, Ceramic, 100nF 16V X7S 0201,±10%	0201	Murata	GRM033C71C104KE14	Fitted	3
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
F1	LFD182G45DCJD247	Signal Conditioning 2.4GHz and 5GHz Diplexer	CAF	Murata	LFD182G45DCJD247	Fitted	1
Fid1, Fid2	N.A.	Fiducial Mark	Fiducial	N.A.	N.A.	Fitted	2
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
LABEL1	10x20mm	PCA version label, stick-on, 10x20mm	Label	Ellco Etikett	N.A.	Fitted	1
LD1	L0402B	LED, Blue, 0402, Vf=3.3V, 60mcd, - 40 to +85°C	0402	Kingbright Company LLC	APHHS1005QBC/D	Fitted	1
R2, R7, R10, R11, R12, R13	100k	Resistor, ±1%, 0.05W	0201	N.A.	N.A.	Fitted	6
R3	150R	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
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	KDS	DSX1612_40MHz	Fitted	1
Z1, Z6	0R	Resistor, ±5%, 0.063W	0402	N.A.	N.A.	Fitted	2
Z3	2.6nH	Inductor, 850mA, ±0.1nH, 50mΩ	0402	Murata	LQW15AN2N6B00	Fitted	1
Z4	0.5pF	Capacitor, NPO, ±0.05pF, 50V	0402	Murata	GJM1555C1HR50WB01	Fitted	1
Z5	3.5nH	Inductor, 900mA, ±0.2nH, 40mΩ	0402	Murata	LQW15AN3N5C10	Fitted	1
Z2	0.6pF	Chip Cap 0402, GJM1555C1HR60WB01	0402	N.A.	N.A.	Not Fitted	0

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