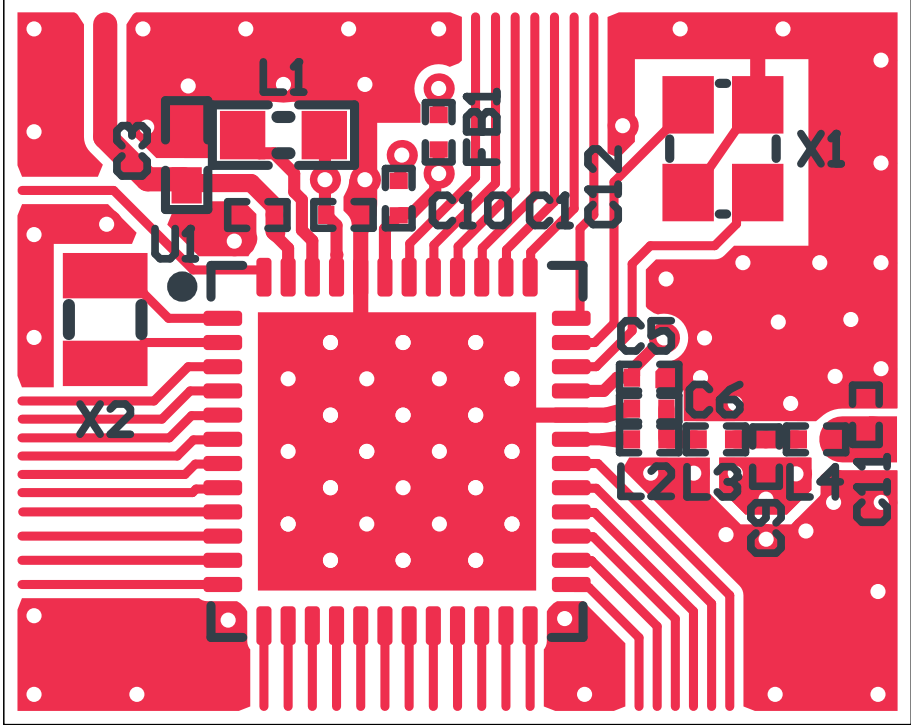


Top Layer (Scale 8:1)



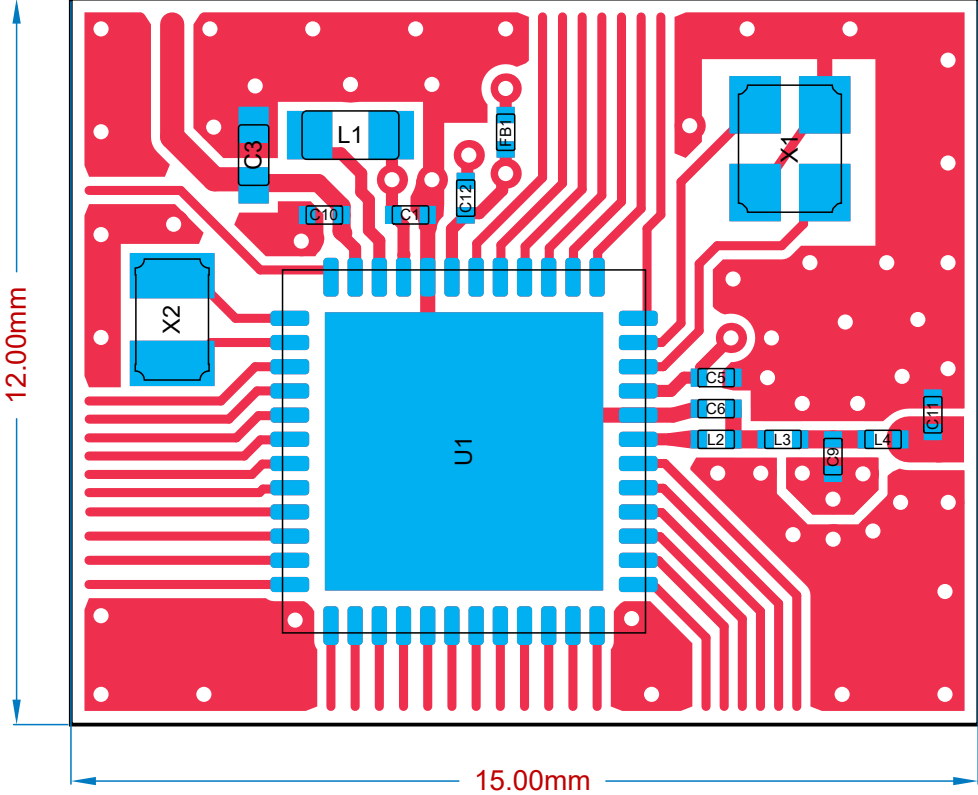
- NOTE:
- Place matching network components as close to the U1's ANT pin as possible.
 - Grounding of C6 capacitor must ONLY be connected to Pin 32 (VSS_PA) in top layer.
 - Pin 32 must ONLY be connected to Pin 49 (VSS center pad) underneath the IC package
 - Grounding of C9 capacitor MUST be isolated from ALL ground layers except the bottom ground layer.
 - Prepreg thickness between TOP and Mid-Layer 1 shall be $\leq 100\ \mu\text{m}$.

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Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size:	A4	Config. No.:	1
Date:	01.07.2026	Device:	nRF54LS05B-QFAA
File:	nRF54LS05x-QFAA_4L_config1.PCBDwf		
Classification:	Public		
Revision:	0.5	Sheet	1 of 9
Drawn By:	RSK		



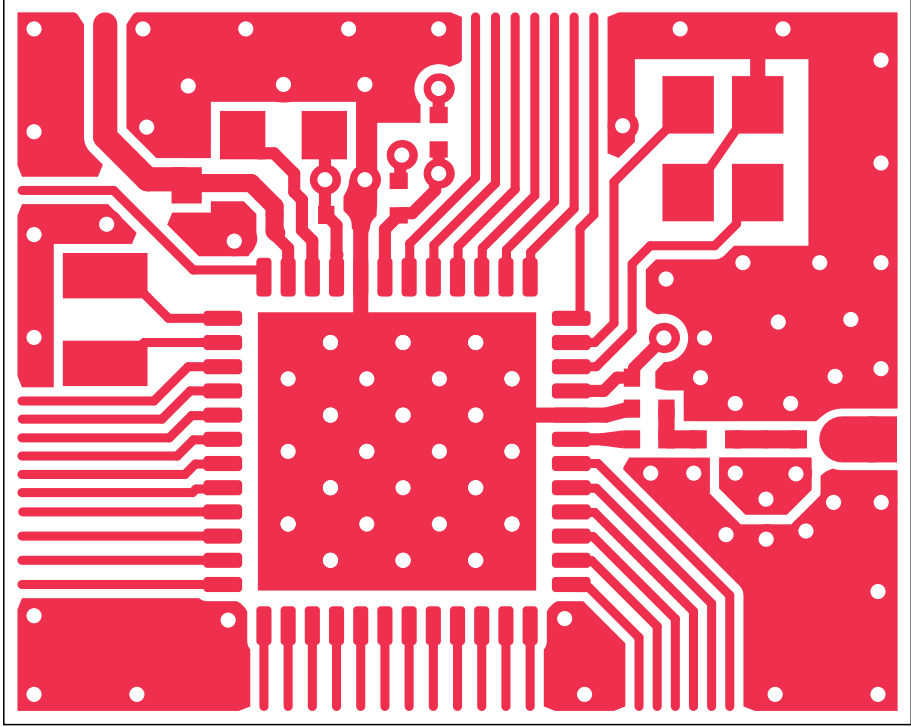
View from Top side (Scale 8:1)



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026			Sheet 2 of 9
File: nRF54LS05x-QFAA_4L_config1.PCBDwf			Drawn By: RSK
Classification: Public			



Top Layer (Scale 8:1)



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026			Sheet 3 of 9
File: nRF54LS05x-QFAA_4L_config1.PCBDwf			Drawn By: RSK
Classification: Public			



A

B

C

D

E

F

1

1

2

2

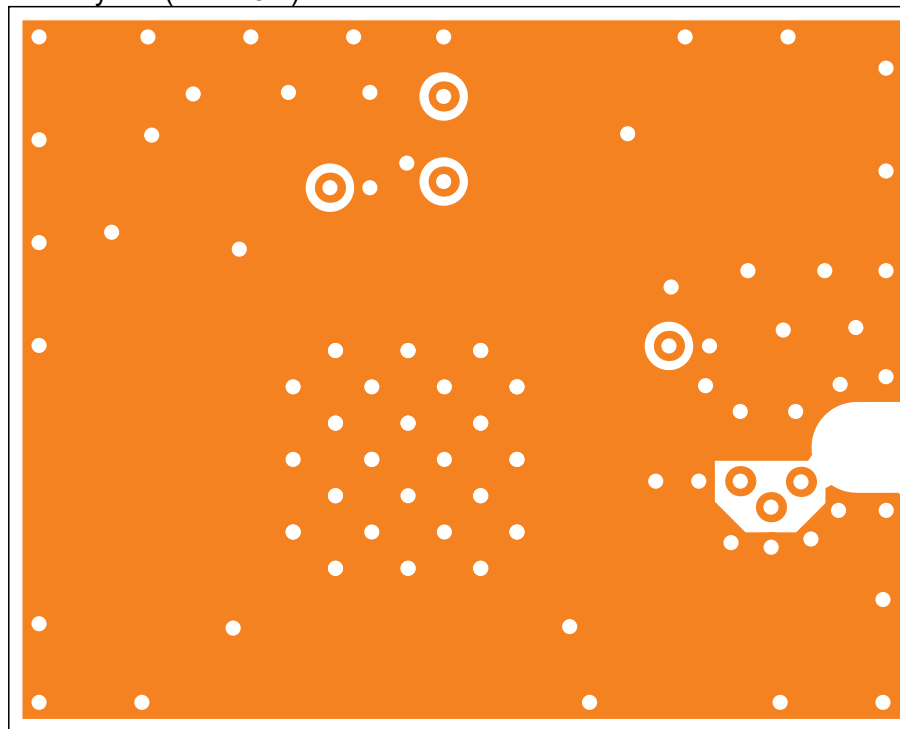
3

3

4

4

Mid-Layer 1 (Scale 8:1)



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026		Sheet 4 of 9	
File: nRF54LS05x-QFAA_4L_config1.PCBDwf		Drawn By: RSK	
Classification: Public			



A

B

C

D

E

F

A

B

C

D

E

F

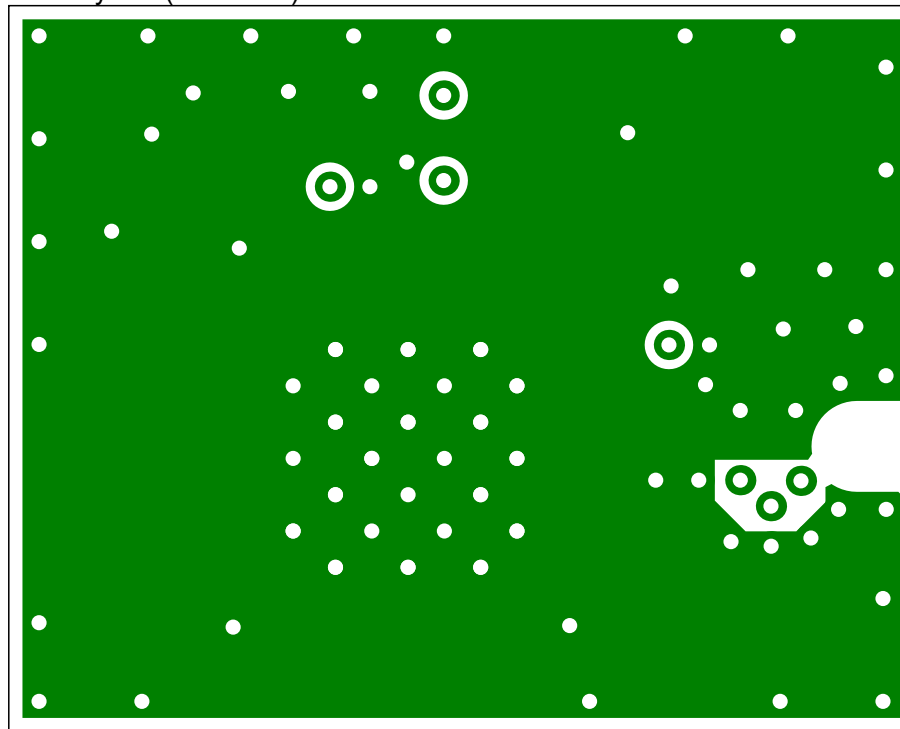
1

2

3

4

Mid-Layer 2 (Scale 8:1)



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size:	A4	Config. No.:	1
Date:	01.07.2026	Device:	nRF54LS05B-QFAA
File:	nRF54LS05x-QFAA_4L_config1.PCBDwf		Revision:
Classification:	Public		0.5
		Sheet	5 of 9
		Drawn By:	RSK



NORDIC
SEMICONDUCTOR

A

B

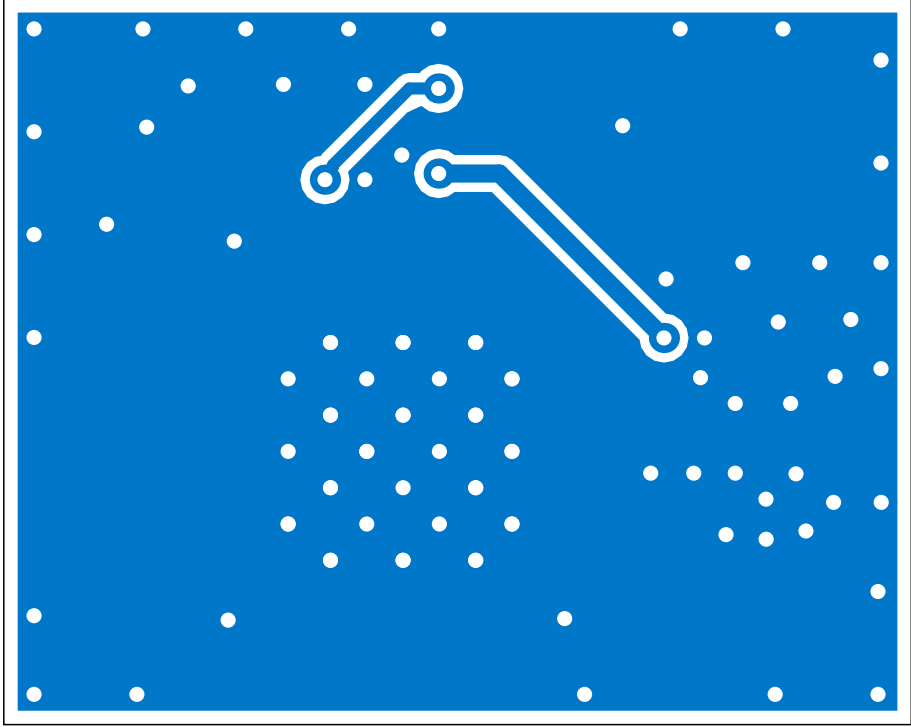
C

D

E

F

Bottom Layer (Scale 8:1)



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026			Sheet 6 of 9
File: nRF54LS05x-QFAA_4L_config1.PCBDwf			Drawn By: RSK
Classification: Public			



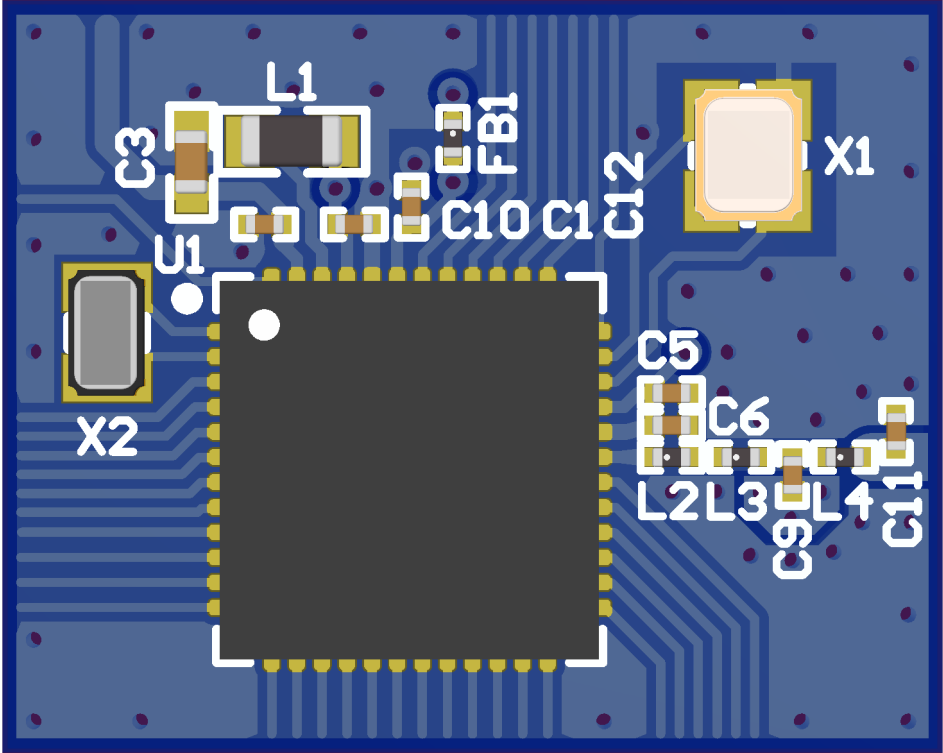
Layer Stack Legend

Material	Layer	Thickness	Type	Gerber
	Top Overlay		Legend	GTO
Surface Material	Top Solder	0.010mm	Solder Mask	GTS
CF-004	Top Layer	0.035mm	Signal	GTL
Prepreg		0.100mm	Dielectric	
CF-004	Mid-Layer 1	0.035mm	Signal	G1
Core		1.300mm	Dielectric	
CF-004	Mid-Layer 2	0.035mm	Signal	G2
Prepreg		0.100mm	Dielectric	
CF-004	Bottom Layer	0.035mm	Signal	GBL
Surface Material	Bottom Solder	0.010mm	Solder Mask	GBS
	Bottom Overlay		Legend	GBO
Total thickness: 1.660mm				

Title VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026			Sheet 7 of 9
File: nRF54LS05x-QFAA_4L_config1.PCBDwf			Drawn By: RSK
Classification: Public			



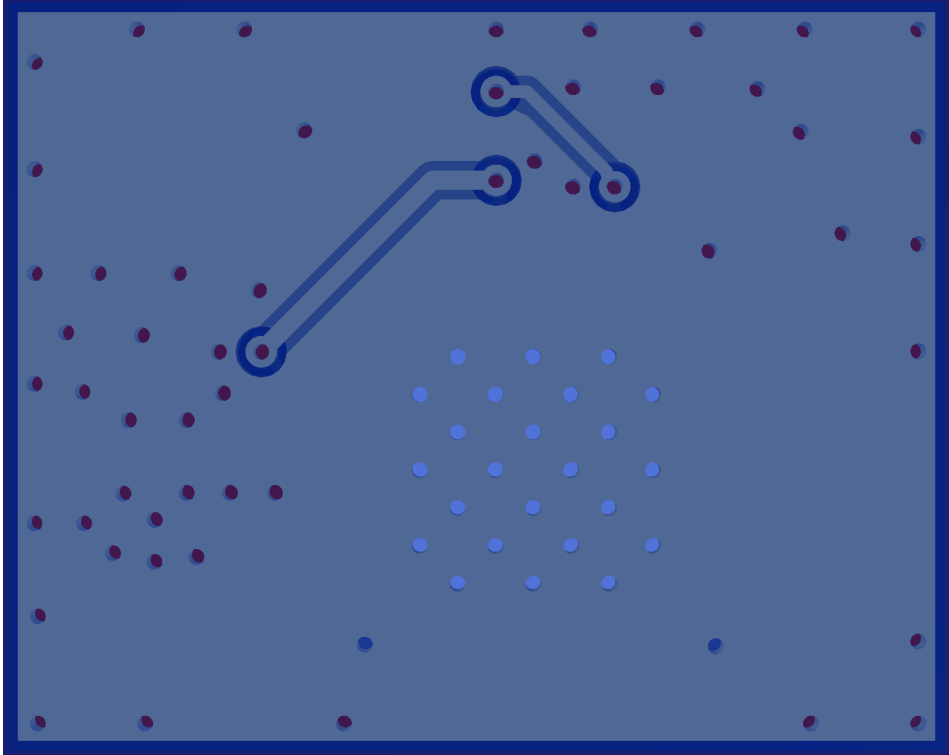
Realistic View



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026			Sheet 8 of 9
File: nRF54LS05x-QFAA_4L_config1.PCBDwf			Drawn By: RSK
Classification: Public			



Realistic View



Title			
VDD:nRF supplied by external supply, Enabled DC/DC			
Size: A4	Config. No.: 1	Device: nRF54LS05B-QFAA	Revision: 0.5
Date: 01.07.2026			Sheet 9 of 9
File: nRF54LS05x-QFAA_4L_config1.PCBDwf			Drawn By: RSK
Classification: Public			

