

PCB Laminate Specification for PCB 400236

Layer Stack Legend

Layer	Material	Thickness	Dielectric Material	Type	Gerber
Top Overlay				Legend	GTO
Top Solder	Surface Material	0.050mm	Solder Resist Halogen-Free	Solder Mask	GTS
Top Surface Finish	Nickel, Gold	0.003mm		Surface Finish	
Top Layer	Copper	0.035mm		Signal	GTL
	Prepreg	0.075mm	FR-4 Halogen-Free	Dielectric	
Mid-Layer 1	Copper	0.035mm		Signal	G1
	Core	1.200mm	FR-4 Halogen-Free	Dielectric	
Mid-Layer 2	Copper	0.035mm		Signal	G2
	Prepreg	0.075mm	FR-4 Halogen-Free	Dielectric	
Bottom Layer	Copper	0.035mm		Signal	GBL
Bottom Surface Finish	Nickel, Gold	0.003mm		Surface Finish	
Bottom Solder	Surface Material	0.050mm	Solder Resist Halogen-Free	Solder Mask	GBS
Bottom Overlay				Legend	GBO
Total thickness: 1.596mm					

PCB Details


PCB Supplier	Suppliers Choice
Number of copper layers	4
Laminate Material	FR-4 Halogen-Free
Total Board Thickness	~1.6mm
Copper thickness	See figure above
PCB Stackup	See figure above
Solder Mask Color	Blue
Silkscreen Color	White
Surface Finish	ENIG
Compliance Enviromental directives	RoHS, REACH, Halogen-Free
Via protection	IPC-4761 Type VII Filled and Capped Via

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
⌘	227	0.100mm	Plated	
☆	1118	0.250mm	Plated	
A	2	0.300mm	Plated	
☆	44	0.305mm	Plated	
◇	4	0.500mm	Plated	
○	85	0.900mm	Plated	
⌘	3	0.991mm	Non-Plated	
⊕	2	1.000mm	Plated	
□	3	1.780mm	Non-Plated	
✕	7	3.200mm	Non-Plated	
	1495 Total			

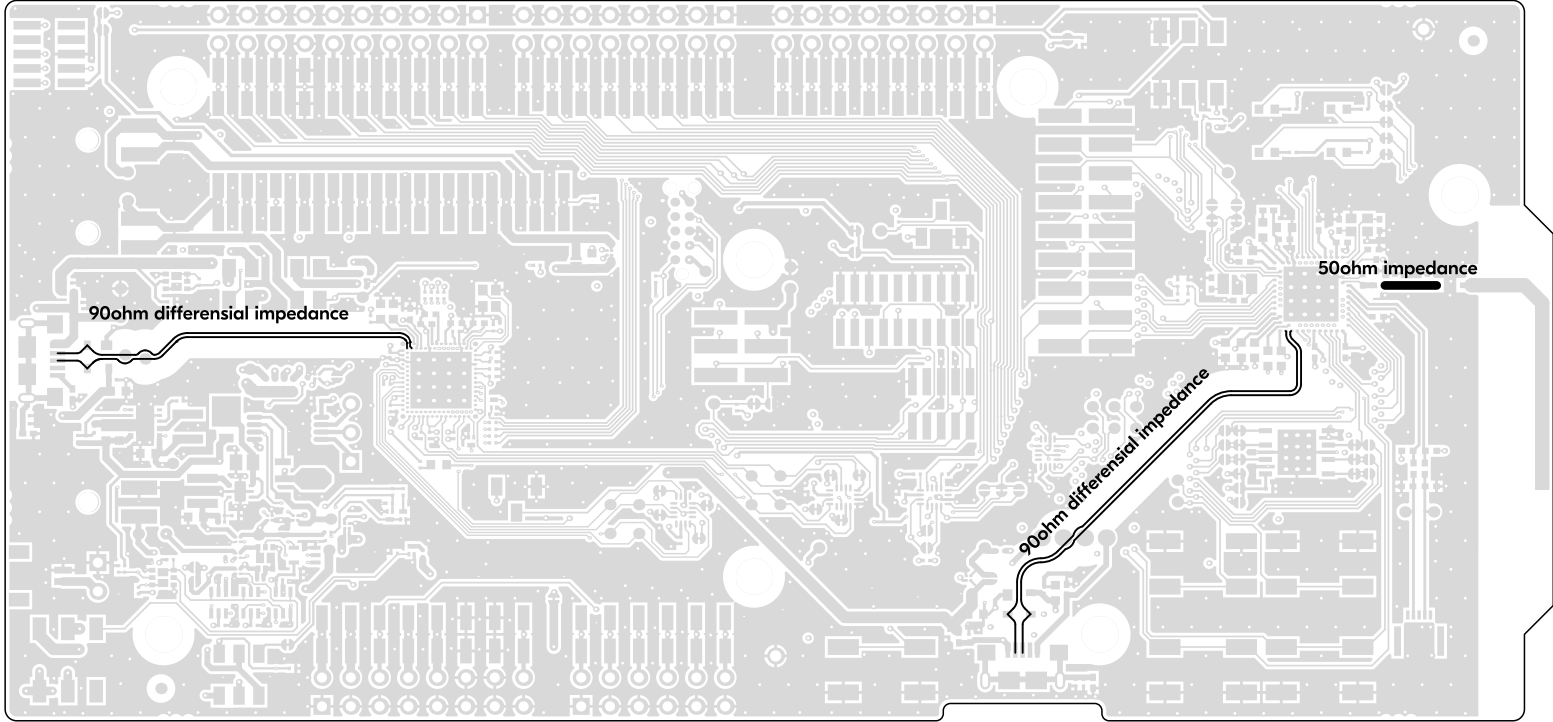
Gerber file extension convention conforming to general industry practice

.GTL	Top Layer
.GBL	Bottom Layer
.G1	Mid-Layer 1
.G2	Mid-Layer 2
.GTO	Top Overlay
.GBO	Bottom Overlay
.GTP	Top Paste Mask
.GBP	Bottom Paste Mask
.GTS	Top Solder Mask
.GBS	Bottom Solder Mask
.GM1	Mechanical 1 (Used for board outline)
.GM11	Mechanical 11 (Used for top layer tracks impedance control)
.GM16	Mechanical 16 (Used for top layer capped vias)

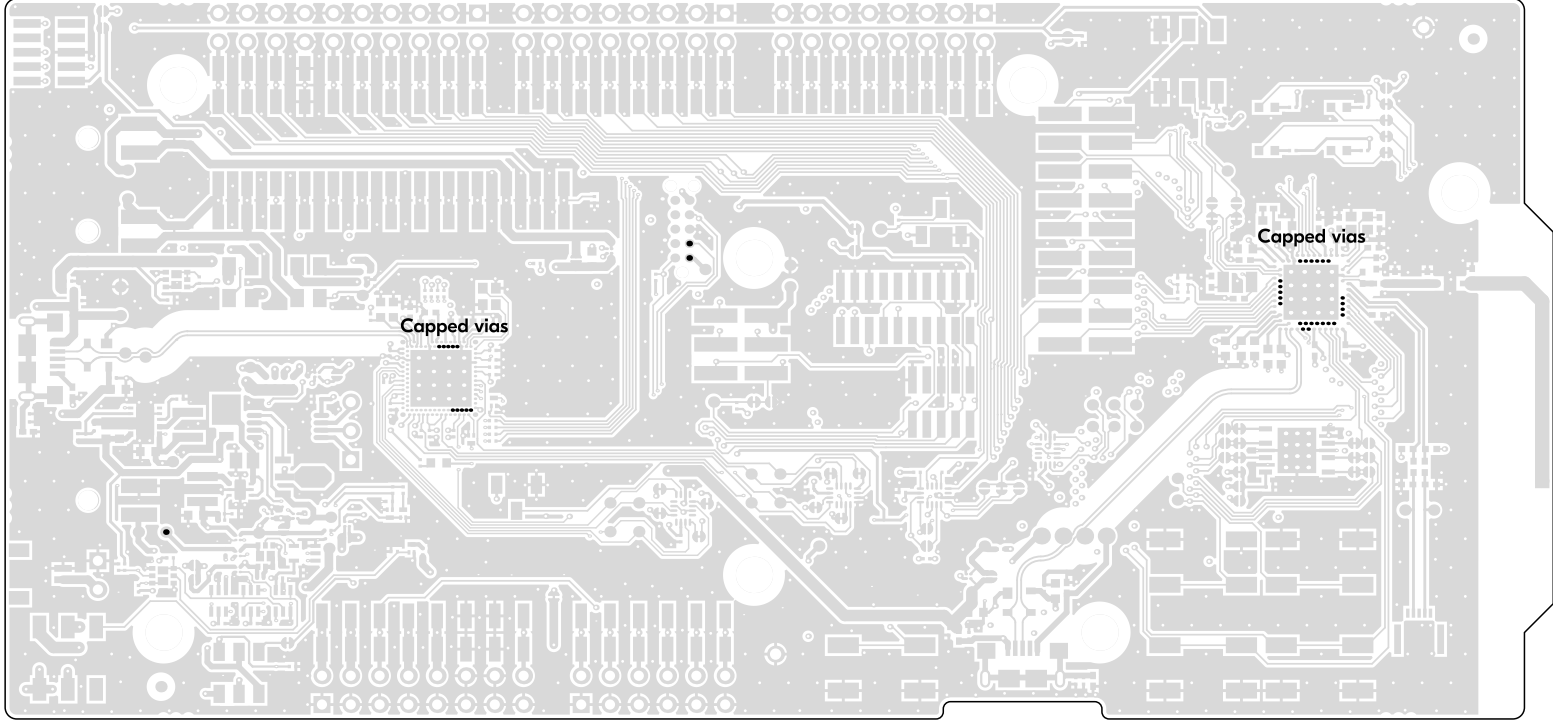
Title			
nRF52840 Development Kit			
Size	PCB Assembly Number: PCA10056	Rev: 3.0.0	
A3	PCB Number: 400236	Rev: 0041MASI	
Date: 03.11.2021			SHEET 1 OF 2
File: 400236.PCBDwf			Drawn By: MASI/RUBR


PCB Information for PCB 400236

Top Impedance (Scale 1.5:1)



Top Via Capping (Scale 1.5:1)



Title			
nRF52840 Development Kit			
Size	PCB Assembly Number: PCA10056	Rev: 3.0.0	
A3	PCB Number: 400236	Rev: 0041MASI	
Date: 03.11.2021			SHEET 2 OF 2
File: 400236.PCBDwf			Drawn By: MASI/RUBR