

Developer passive starter kit for Nordic IC

Nordic nRF52x32 & nRF51x22 IC has an integrated RF functionality including; Bluetooth® low energy ANT and 2.4GHz ultra low power communication. Our passive starter kit supports the reference design of the Nordic nRF52x32 & nRF51x22 with our range of capacitors, inductor, crystal and balun products.

Our latest kit will provide you with a comprehensive set of components with supporting part information to give everything you need to support your design when implementing the **nRF52x32** or **nRF51x22 IC**.

- Packaged in passive components in collaboration with Nordic for performance maximisation
- Kit with everything you need to support your design
- Optional components for small size application available

Visit our reference design page

Get it now

EKSM-PND51X22B-KIT
supporting [nRF51x22 series](#)

<http://go.murata.com/nrf51x22>



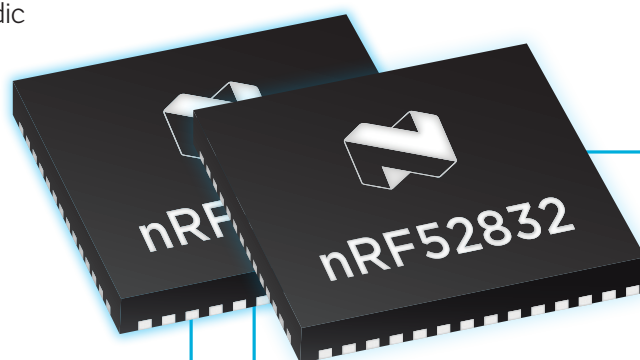
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in collaboration with
Nordic Semiconductor



Passive starter kit contents



Designator	Nordic				Murata				
	nRF52x32				Capacitor, Inductor, Timing Device, Balun				
	Description	QFAA/B/C QFN48 with internal LDO low vol. mode	QFAA/B/C QFN48 With DC/DC	WLCSP with internal LDO	Status	Description *Size code in mm(inch)	Description	Parts Number	Kit QTY
C1 C2	12pF, NPO, +/-2%	2	2	2	Optional	0.6*0.3(0201)	(For X1:Murata XRC) 10pF, COG, +/-2%	GRM0335C1H100GA01	20
C3	0.8pF, NPO, +/-5%	1	1	1	Optional	0.6*0.3(0201)	0.8pF, COG, +/-0.05pF	GRM0335C1HR80WA01	10
C4 C5 C8	100nF, X7R, +/-10%	3	3	3	Optional	0.6*0.3(0201)	100nF, X5R, +/-10%	GRM033R61E104KE14	30
C6	N.C	N.C	N.C	N.C	-	-	-	-	-
C7	100pF, NPO, +/-5%	1	1	1	Optional	0.6*0.3(0201)	100pF, COG, +/-5%	GRM0335C1H101JA01	10
C9	4.7uF, X5R, +/-10%	1	1	1	Optional	1.0*0.5(0402)	4.7uF, X5R, +/-20%	GRM155R61A475MEAA	10
C10	1.0uF, X7R, +/-10%	1	1	1	Optional	0.6*0.3(0201)	1.0uF, X5R, +/-20%	GRM033R61A105ME15	10
C11 C12	12pF, NPO, +/-2%	2	2	2	Optional	0.6*0.3(0201)	12pF, COG, +/-2%	GRM0335C1H120GA01	20
Ctune1 tune2	TBD pF +/-5%	2	2	2	-	-	-	-	-
L1	3.9nH +/-5%	1	1	1	Nordic confirmed	1.0*0.5(0402)	4.7nH +/-5%	LQG15HS4N7C02	10
L2	10uH 50mA, +/-20%	0	1	1	Optional	1.6*0.8(0603)	10uH 50mA, +/-20%	LQM18FN100M00	10
L3	15nH +/-10%	0	1	1	Nordic confirmed	1.0*0.5(0402)	15nH +/-5%	LQG15HS15NJ02	10
X1	32MHz +/-40ppm	1	1	1	Nordic confirmed	2.0*1.6	32MHz +/-40ppm	XRCGB32M000F2P10R0	10
					Nordic confirmed	1.6*1.2	32MHz +/-35ppm	XRCMD32M000FXP54R0	10
LPF	2.4~2.5GHz Low pass filter	0	0	1	Nordic confirmed	0.6*0.5	2.4~2.5GHz Low pass filter	LFLQ2G45TR2E642	10

Passive starter kit contents



Designator	Nordic				Murata				
	nRF51x22				Capacitor, Inductor, Timing Device, Balun				
	Description	QFAA/B/C QFN48 with internal LDO low vol. mode	QFAA/B/C QFN48 With DC/DC	WLCSP with internal LDO	Status	Description *Size code in mm(inch)	Description	Parts Number	Kit QTY
C1 C2	12pF, NP0, +/-2%	2	2	2	Optional	0.6*0.3(0201)	(For X1:Murata XRC) 10pF, C0G, +/-2%	GRM0335C1H100GA01D	20
C3	2.2nF, X7R, +/-10%	1	1	1	Optional	0.6*0.3(0201)	2.2nF, X5R, +/-10%	GRM033R61C222KA88D	10
C4	1.0pF, NP0, +/-0.1pF	1	1	0	Optional	0.6*0.3(0201)	1.0pF, C0G, +/-0.1pF	GRM0335C1H1R0BA01D	10
C5	2.2pF, NP0, +/-0.1pF	1	1	0	Optional	0.6*0.3(0201)	2.2pF, C0G, +/-0.1pF	GRM0335C1H2R2BA01D	10
C5 For QFAC	3.9pF, NP0, +/-0.1pF	1	1	1	Optional	0.6*0.3(0201)	3.9pF, C0G, +/-0.1pF	GRM0335C1H3R9BA01D	10
C6	1.5pF, NP0, +/-0.1pF	1	1	0	Optional	0.6*0.3(0201)	1.5pF, C0G, +/-0.1pF	GRM0335C1H1R5BA01D	10
C7	100nF	1	0	1	Optional	0.6*0.3(0201)	100nF, X5R, +/-10%	GRM033R61C104KE14D	10
	4.7uF, X5R, +/-10%	0	1	0	Optional	1.0*0.5(0402)	4.7uF, X5R, +/-20%	GRM155R61A475MEAAD	10
C8 C11	100nF, X7R, +/-10%	1	1	1	Optional	0.6*0.3(0201)	100nF, X5R, +/-10%	GRM033R61E104KE14D	20
C9	1.0nF, X7R, +/-10%	1	1	1	Optional	0.6*0.3(0201)	1.0nF, X7R, +/-10%	GRM033R71H102KA12D	10
C10	47nF, X7R, +/-10%	1	1	1	Optional	0.6*0.3(0201)	47nF, X5R, +/-10%	GRM033R61C473KE84D	10
C12	1.0uF, X7R, +/-10%	0	1	0	Optional	1.0*0.5(0402)	1.0uF, X5R, +/-20%	GRM033R61A105ME15D	10
C13 C14	12pF, NP0, +/-2%	1	1	1	Optional	0.6*0.3(0201)	12pF, C0G, +/-2%	GRM0335C1H120GA01D	20

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	Description	QFAA/B/C QFN48 with internal LDO low vol. mode	QFAA/B/C QFN48 With DC/DC	WLCSP with internal LDO	Status	Description *Size code in mm(inch)	Description	Parts Number	Kit QTY
L1	4.7nH +/-5%	1	1	0	Nordic confirmed	1.0*0.5(0402)	4.7nH +/-0.2nH	LQG15HS4N7C02	10
L2	10nH +/-5%	1	1	0	Nordic confirmed	1.0*0.5(0402)	10nH +/-5%	LQG15HS10NJ02	10
L2 For QFAC	27nH +/-5%	1	1	0	Nordic confirmed	1.0*0.5(0402)	27nH +/-5%	LQG15HS27NJ02	10
L3	3.3nH +/-5%	1	1	0	Nordic confirmed	1.0*0.5(0402)	3.3nH +/-0.1nH	LQG15HS3N3B02	10
L4	10uH 50mA, +/-20%	0	1	0	Optional	1.6*0.8(0603),	10uH 50mA, +/-20%	LQM18FN100M00	10
L5	15nH +/-10%	0	1	0	Nordic confirmed	1.0*0.5(0402)	15nH +/-5%	LQG15HS15NJ02	10
X1	16MHz +/-40ppm	1	1	1	Nordic confirmed	2.0*1.6	16MHz +/-40ppm	XRCGB16M000FXN16R0	10
					Nordic confirmed	2.0*1.6	32MHz +/-40ppm*	XRCGB32M000F2P10R0	10
					Nordic confirmed	1.6*1.2	32MHz +/-35ppm*	XRCMD32M000FXP54R0	10
BAL	2.4~2.5GHz matching balun	1	1	0	Nordic confirmed	1.6x0.8	2.4~2.5GHz matching balun (QFN48)	LFB182G45BG4D729	10
		0	0	1	Nordic confirmed	1.6x0.8	2.4~2.5GHz matching balun (WLCSP)	LFB182G45BG7D948	10

* It can be used for 16MHz.