

NB3N1900KMNGEVB

Table 3. BILL OF MATERIALS FOR THE NB3N1900KMNGEVB

Ref. Des.	Qty	Part#	Value	PCB Footprint	Vendor	Vendor PN	Manufacturer
B1	1		PC Board, Clock Fanout Board		HiQ Electronics	NB3N1900KMNGEVB	
C1-C35, C37, C42, C43	38	C1005C0G1H020C	2.0 pF	C0402	Digi-Key	445-4863-1-ND	TDK
C36, C44	2	TR3A106K010C2000	10 μ F	C1206	Digi-Key	718-1300-1-ND	Vishay
C38, C40, C67, C68	4	GRM155R61A105ME15D	1 μ F	C0402	Digi-Key	490-5409-1-ND	Murata
C39, C41, C46-C54, C56-C58, C60, C62, C65, C69	18	0402ZD104KAT2A	100 nF	C0402	Digi-Key	478-1129-1-ND	AVX
C45	1	C1608X5R1A106M	10 μ F	C0603	Digi-Key	445-6853-1-ND	TDK
C55, C59, C61	3	C1005X5R0J475M	4.7 μ F	C0402	Digi-Key	445-7395-1-ND	TDK
C63	1	0402YC103KAT2A	10 nF	C0402	Digi-Key	478-1114-1-ND	AVX
C64, C66	2	GRM1555C1H100JZ01D	10 pF	C0402	Digi-Key	490-1278-1-ND	Murata
D1	1	PACDN004SR	PACDN004	SOT_143	Mouser	748-PACDN004SR	ON Semiconductor
FB1, FB2	2	BLM18KG601SN1D	600	L0603	Digi-Key	490-5258-1-ND	Murata
FB3, FB4	2	BLM15AG601SN1D	600	L0402	Digi-Key	490-1006-1-ND	Murata
H1, H2, H3, H4	4		.129 Hole in .240 Round Pad	HOLE_0.240R0.12 9_PTH			
J1-J4, J6, J7, J10, J11, J13, J14, J15, J17, J20, J22	14	142-0701-801	SMA Jack, End Launch	SMA_Jack_End_L aunch	Digi-key	J502-ND	Johnson Components
J5, J8, J9, J12, J16, J18, J19, J21, J23	9	961103-6404-AR	Header 3-pin	HDR_1X3_2P54	Digi-Key	3M9448-ND	3M
J24	1	571-0500	Banana Jack, Thru-Hole, Red	con_571-0500	Mouser	164-6219	Deltron
J25	1	571-0700	Banana Jack, Thru-Hole, Yellow	con_571-0500	Mouser	164-7170	Deltron
J26	1	571-0100	Banana Jack, Thru-Hole, Black	con_571-0500	Mouser	164-6218	Deltron
J27, J28	2	961102-6404-AR	Header 2-pin	HDR_1X2_2P54	Digi-Key	3M9447-ND	3M
J29	1	USB-B1SMHSW6	Conn, USB-B, SMT	Con_USB_B_RA	Digi-Key	ED2994-ND	On Shore Technology
LED1	1	LTST-C190KGKT	LED, Green	LED_0603	Digi-Key	160-1435-1-ND	Lite-On
M1-M8, M10	9	QPC02SXGN-RC	Shunt		Digi-Key	S9337-ND	Sullins
M9, M11-M13	4	1808	Standoff, 4-40 1/4 x 5/8		Digi-Key	1808K-ND	Keystone
M14-M17	4	PMS 440 0025 PH	Screw, 4-40 x 0.25, PHP		Digi-Key	H342-ND	Building Fasteners
PR1-PR6	6	No Part	4 Round Pads, .060 with .040 Hole	BERG_2X2_2P54			

NB3N1900KMNGEVB

Table 3. BILL OF MATERIALS FOR THE NB3N1900KMNGEVB (continued)

Ref. Des.	Qty	Part#	Value	PCB Footprint	Vendor	Vendor PN	Manufacturer
R1, R2, R5, R6, R10, R11, R14, R18, R19, R22, R25, R27, R30, R31, R32, R34, R37, R39, R41, R43, R45, R48, R51, R53, R55, R58, R61, R65, R69, R72, R75, R77, R79, R83, R88, R92, R95, R97	38		33 Ω	R0402	Digi-Key	P33JTR-ND	Panasonic
R3, R7, R16, R20, R23, R28, R33, R35	8		49.9 Ω	R0402	Digi-Key	P49.9LCT-ND	Panasonic
R4, R8, R17, R21, R24, R26, R29, R36, R38, R40, R42, R44, R47, R50, R52, R54, R57, R60, R62, R66, R71, R74, R76, R78, R82, R87, R90, R94, R96, R98	30		49.9 Ω	R0402	Digi-Key	P49.9LCT-ND	Panasonic
R9, R12, R13, R15, R46, R49, R56, R59, R70, R73, R80, R84	12	CRCW04020000Z0ED	0 Ω	R0402	Digi-Key	541-0.0JCT-ND	Vishay
R63, R64	2	ERJ-3EKF49R9V	49.9 Ω	R0603	Digi-Key	P49.9HCT-ND	Panasonic
R67, R68, R85, R89	4	ERJ-3GEYJ472V	4.7 kΩ	R0603	Digi-Key	P4.7KGCT-ND	Panasonic
R81, R86	2	ERJ-3GEYJ472V	4.7 kΩ	R0603	Digi-Key	P4.7KGCT-ND	Panasonic
R91, R93	2	ERJ-3GEYJ2R2V	2.2 Ω	R0603	Digi-Key	P2.2GCT-ND	Panasonic
R99	1	ERJ-2RKF4120X	475 Ω	R0402	Digi-Key	P412LCT-ND	Panasonic
R100, R102	2	ERJ-2GE0R00X	0 Ω	R0402	Digi-Key	P0.0JCT-ND	Panasonic
R101, R103	2	ERJ-2RKF69R8X	82.5 Ω	R0402	Digi-Key	P69.8LCT-ND	Panasonic
R104-R106, R108-R110	6	ERJ-2GEJ103X	10 kΩ	R0402	Digi-Key	P10KJCT-ND	Panasonic
R107	1	ERJ-2RKF1202X	12 kΩ	R0402	Digi-Key	P12.0KLCT-ND	Panasonic
R111	1	ERJ-2GEJ471X	470 Ω	R0402	Digi-Key	P470JCT-ND	Panasonic
R112	1	ERJ-2GEJ222X	2.2 kΩ	R0402	Digi-Key	P2.2KJCT-ND	Panasonic
SG1-SG12	12	No Part	Solder Gap	R0201			
TP1-TP22, TP24, TP26, TP28, TP29	26		Test Pad 30 × 30 mil	tp_30_30			
TP23, TP25, TP27, TP30-TP34	8	5015	Test Point, SMT	tp_70_135	Digi-Key	5015KCT-ND	Keystone
TP35, TP36	2	No Part	Test Pad 30 × 60 mil	tp_30_60			
TP37-TP40	4	No Part	Test Pad 50 × 100 mil	tp_50_100			
U1	1	NB3N1900KMNG	DNI NB3N1900K	QFN_72P_0P5MM	-	-	ON Semiconductor

NB3N1900KMNGEVB

Table 3. BILL OF MATERIALS FOR THE NB3N1900KMNGEVB (continued)

Ref. Des.	Qty	Part#	Value	PCB Footprint	Vendor	Vendor PN	Manufacturer
U2	1	FT2232HQ-REEL	FT2232H	QFN_64_0p5	Digi-Key	768-1025-1-ND	FTDI
U3	1	93LC46BT-I/ST	93LC46B	TSSOP_8_4p4W_0P65	Digi-Key	93LC46BT-I/STCT-ND	Microchip
U4	1	NCP4586DSN33T1G	NCP4586, 3.3 V	SOT23_5p	ON Semiconductor	NCP4586DSN33T1G	ON Semiconductor
Y1	1	ABM8G-12.000MHZ-4Y-T3	12 MHz	Cry-4p-SMD1	Digi-Key	535-10901-1-ND	Abracon Corp