



### Bill of Materials for the NB3W1200LMNGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
B1	1	PC Board, Demo Board	-	-	-	-	-	-	YES
C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C21,C23,C26,C31	24	Capacitor	2.0pF	12%	0402	TDK	C1005C0G1H020C	YES	YES
C22,C32	2	Capacitor	10uF	10%	1206	Vishay	TR3A106K010C2000	YES	YES
C24,C25,C28,C29,C30,C34,C35,C36,C37,C38,C39,C40,C41,C43,C44,C45,C47,C49,C52,C58	20	Capacitor	100nF	10%	0402	AVX	0402ZD104KAT2A	YES	YES
C27,C33	2	Capacitor	10uF	20%	0603	TDK	C1608X5R1A106M	YES	YES
C42,C46,C48	3	Capacitor	4.7uF	20%	0402	TDK	C1005X5R0J475M	YES	YES
C50	1	Capacitor	10nF	10%	0402	AVX	0402YC103KAT2A	YES	YES
C51,C53	2	Capacitor	10pF	5%	0402	Murata	GRM1555C1H100J201D	YES	YES
C55,C56,C57,C59	4	Capacitor	1uF	20%	0402	Murata	GRM1558R1A105ME15D	YES	YES
D1	1	ESD Suppressor 4 CHANNEL PROTECTION	PACDN004	-	SOT-143	ON Semiconductor	PACDN004SR	NO	YES
FB2,FB1	2	EMI Filter Bead	600 ohm	-	0603	Murata	BLM18KG601SN1D	YES	YES
FB3,FB4	2	EMI Filter Bead	600 ohm	25%	0402	Murata	BLM15AG601SN1D	YES	YES
J3,J4,J5,J6,J11,J12,J13,J14,J19,J20,J21,J22,J37,J38	14	RF Connectors PC END MT JCK GLD .062"	-	-	SMA END LAUNCH 0.062"	Johnson Components	142-0701-801	YES	YES
J43,J44,J47,J48,J51,J52	6	Header	-	-	Header Thru-Hole 2 x 3	FCI	67996-206HLF	YES	YES
J56,J55	2	Header	Header 3-pin	-	3-pin Header, thru-hole 0.1	3M	961103-6404-AR	YES	YES
J59	1	Banana Jack, Thru-Hole, Red	-	-	CON2 571-0500 DELTRON	Deltron	571-0500	YES	YES
J60	1	Banana Jack, Thru-Hole, Yellow	-	-	CON2 571-0500 DELTRON	Deltron	571-0700	YES	YES
J61	1	Banana Jack, Thru-Hole, Black	-	-	CON2 571-0500 DELTRON	Deltron	571-0100	YES	YES
J62	1	CONN USB TYPE B R/A HORIZ SMD	-	-	SMT USB Conn B	On Shore Technology	USB-B1SMH5W6	YES	YES
J63,J64,J65,J66,J67,J68,J69,J70	8	Header	Header 2-pin	-	2-pin Header, thru-hole 0.1	3M	961102-6404-AR	YES	YES
LED1	1	LED GREEN CLEAR 0603 SMD	LED, Green	-	0603 LED	Lite-On	LTST-C190KGKT	YES	YES
M1,M2,M3,M4,M5,M6,M7,M8,M10,M12,M14,M17,M19,M21,M23,M24,M25	17	CONN JUMPER SHORTING .100" GOLD	Shunt	-	(2.54mm) x (5.97mm)	Sullins	QPC02SXGN-RC	YES	YES
M9,M11,M13,M15	4	STANDOFF 4-40 ALUMINUM 5/8"	Standoff, 4-40 1/4 x 5/8	-	-	Keystone	1808	YES	YES
M16,M18,M20,M22	4	Screw, 4-40 x 0.25, PHF	-	-	-	Building Fasteners	PMS 440 0025 PH	YES	YES
R1,R5,R9,R13,R17,R21,R25,R29,R33,R37,R41,R45,R49,R55,R61,R65,R69,R73,R77,R83,R89,R95,R99,R103	24	Resistor	33 ohm	1%	0402	Panasonic	ERJ-2RKF33R0X	YES	YES
R3,R7,R11,R15,R19,R23,R27,R31,R35,R39,R43,R47,R53,R59,R63,R67,R71,R75,R80,R86,R91,R97,R101,R105	0	DNI	-	-	0402	-	-	-	YES
R10,R14,R18,R22,R42,R46,R50,R56,R78,R84,R90,R96	12	Resistor	0 ohm	Jumper	0402	Vishay	CRCW04020000Z0ED	YES	YES
R51,R52	2	Resistor	49.9 ohm	1%	0603	Panasonic	ERJ-3EKF49R9V	YES	YES
R57,R58,R79,R82,R85,R88	6	Resistor	4.7K ohm	5%	0603	Panasonic	ERJ-3GEYJ472V	YES	YES
R94,R93	2	Resistor	2.2 ohm	5%	0603	Panasonic	ERJ-3GEYJ2R2V	YES	YES
R107	1	Resistor	475 ohm	1%	0402	Panasonic	ERJ-2RKF4750X	YES	YES
R108,R109	0	DNI	-	-	0402	-	-	-	YES
R110,R111,R114,R116,R117,R118	6	Resistor	10K ohm	5%	0402	Panasonic	ERJ-2GEJ103X	YES	YES
R112,R113,R121,R122,R123,R124,R125,R126,R127,R128,R129,R130,R131,R132	14	Resistor	0 ohm	Jumper	0201	Panasonic	ERJ-1GE0R00C	YES	YES
R115	1	Resistor	12K ohm	1%	0402	Panasonic	ERJ-2RKF1202X	YES	YES
R119	1	Resistor	470 ohm	5%	0402	Panasonic	ERJ-2GEJ471X	YES	YES
R120	1	Resistor	2.2K ohm	5%	0402	Panasonic	ERJ-2GEJ222X	YES	YES
TP1,TP2,TP3,TP4,TP5,TP6,TP13,TP14	8	Test Point	Test Point, SMT	-	TP 5015 KEYSTONE	Keystone	5015	YES	YES
U1	1	-	NB3W1200L	-	64-QFN 9mm	ON Semiconductor	NB3W1200LMNG	NO	YES
U2	1	-	FT2232H	-	64-QFN	FTDI	FT2232HQ-REEL	NO	YES
U3	1	-	93LC46B	-	8-TSSOP	Microchip	93LC46BT-I/ST	NO	YES
U4	1	-	NCP4586, 3.3V	-	SOT-23-5	ON Semiconductor	NCP4586DSN33T1G	NO	YES
Y1	1	-	12 MHz	-	2.5 x 3.2 mm SMT	Abracon Corp	ABM8G-12.000MHZ-4Y-T3	YES	YES