



Bill of Materials for the NB3H5150MNGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1A2,C1B2,C2A2,C2B2,C3A2,C3B2,C4A2,C4B2	8	CAP, CER, 0.1uF, 50V, 10%, X5R, 0402	0.1uF, 50V	10%	0402	Various	445-5942-1-ND	Yes	Yes
C31,C32	2	Cap, Chip, 18pF, 0402, 10V, +/-2%	18pF, 10V	2%	0402	Various	478-4435-1-ND	Yes	Yes
C4,C6,C8,C10,C4	10	Cap, Chip, 1uF, 0603, 10V, 10%, X7R	1uF, 10V	10%	0603	Various	MCCB105K1NRT	Yes	Yes
C12,C36,C39,C40	17	CAP, CER, 0.1uF, 50V, 10%, X7R, 0603	0.1uF, 50V	10%	0603	Various	490-1419-1-ND	Yes	Yes
C1A1,C1B1,C2A1,C2B1,C3A1,C3B1,C4A1,C4B1	8	Cap, Chip, 5.0pF, 0603, 50V	5.0 pF, 50V	5%	0603	Various	PCD50CVCT-ND	Yes	Yes
C3	1	Cap, Chip, 1uF, 0805, 50V, 5% X7R	0.1uF, 50V	5%	0805	Various	478-3352-1-ND	Yes	Yes
C5,C7,C9	3	Cap, cer, 1206, 16V, 1uF, X7R, 10%	0.1uF, 16V	10%	1206	Various	CL206C104K4RACTU	Yes	Yes
C5A,C66,C68,C70,C71,C72,C73,C74	8	Cap, Chip, 10uF, 1210, 10V, 10%, X5R	10uF, 10V	10%	1210	Various	587-1370-1-ND	Yes	Yes
C29	0	DNP	DNP	-	-	-	DNP	-	Yes
C91	1	Cap, Chip, 22uF, Tant "D", 25V 10%	22uF, 25V	10%	-	Various	478-1729-1-ND	Yes	Yes
R73	0	DNP	DNP	-	-	-	DNP	-	Yes
R31,R32	2	Res, Chip, 49.9 Ohm, 0402, 1/16W, 1%	49.9 Ohm, 1/16W	1%	0402	Various	P49-91CT-ND	Yes	Yes
R39	1	RES SMD 3.3K OHM 1% 1/16W 0402	3.3K Ohm, 1/16W	1%	0402	Various	BHM3.3KCDTR-ND	Yes	Yes
R40,R71,R72,R2A2,R2B2,R3A2,R3B2,R4A2,R4B2	9	Res, Chip, 0 Ohm, 0402, 1/16W, 5%	0 Ohm, 1/16W	5%	0402	Various	311-0.0RTR-ND	Yes	Yes
R1A2,R1B2	2	Res, Chip, 0 Ohm, 0402, 1/16W, 5%	0 Ohm, 1/16W	5%	0402	Various	311-0.0RTR-ND	Yes	Yes
R69,R70	0	DNP	DNP	-	-	-	DNP	-	Yes
R1A1,R1B1	2	Res, Chip, 33 Ohm, 0402, 1/16W, 5%	33 Ohm, 1/16W	5%	0402	Various	RC73J2230IT	Yes	Yes
R2A1,R2B1	2	Res, Chip, 33 Ohm, 0402, 1/16W, 5%	33 Ohm, 1/16W	5%	0402	Various	RC73J2230IT	Yes	Yes
R3A1,R3B1,R4A1,R4B1	6	Res, Chip, 33 Ohm, 0402, 1/16W, 5%	33 Ohm, 1/16W	5%	0402	Various	RC73J2230IT	Yes	Yes
R1A3,R1B3,R2A3,R2B3,R3A3,R3B3,R4A3,R4B3	8	RES SMD 127 OHM 1% 1/16W 0402	127 Ohm, 1/16W	1%	0402	Various	541-127DKR-ND	Yes	Yes
R1A5,R1A6,R1B5,R1B6,R2A5,R2A6,R2B5,R2B6,R3A5,R3A6,R3B5,R3B6,R4A5,R4A6,R4B5,R4B6	0	DNP	DNP	-	-	-	DNP	-	Yes
RES7,RES8	2	RES 10K OHM 1/10W 1% 0803 SMD	10K Ohm, 1/10W	1%	0803	Various	P10.0KHCT-ND	Yes	Yes
R1A4,R1B4,R2A4,R2B4,R3A4,R3B4,R4A4,R4B4	8	RES SMD 82 OHM 0.1% 0.15W 0805	82.5 Ohm, 0.15W	0%	0805	Various	ERA-6AEB820V; P82DACT-ND	Yes	Yes
L1,L2,L3,L4,L5,L6,L7,L8	8	IND, FERRITE-BEAD, 600OHM, 100MHZ*	600 Ohm (100MHz)	-	-	Various	587-1846-1-ND	Yes	Yes
U100,U200,U300,U400	4	TRANSFORMER	MABA-007159	-	-	Various	1465-1302-1-ND	Yes	Yes
CLK1A,CLK1AB,C,CLK1B,CLK2A,CLK2AB,CLK2B,CLK3A,CLK3AB,CLK3B,CLK4A,CLK4AB,CLK4B,J59,J60	14	CONN SMA JACK 50 OHM EDGE MNT	SMA 142-0761-861	-	-	Various	J805-ND	Yes	Yes
J76,J77,J78	3	Connector, header, 50 pos, .100"	HDR_1x01	-	-	Various	TSW-150-14-G-5	Yes	Yes
J65,J66,J67,J68,J69,J70	6	Connector, header, 50 pos, .100"	hdr_1x02_100	-	-	Various	TSW-150-14-G-5	Yes	Yes
J40,J42,J44,J46,J48,J50,J61,J62,J63,J64,J75,J_OS_C,FS_LJ_OS_C_OE	13	Connector, header, 50 pos, .100"	hdr_1x03_100	-	-	Various	TSW-150-14-G-5	Yes	Yes
CN2,CN3	2	CONN HEADER FMAL 26PS.1" DL GOLD	26 pin conn	-	-	Various	57116-ND	Yes	Yes
J71,J72,J73,J74	4	HDR SPIN_CROSS_100 HEADER, MAL	HDR_1x01[5 pin]	-	-	Various	TSW-150-14-G-5	Yes	Yes
J58,J_OS_C_VDD,J_SCL1,J_SDA1,J_USB_PWR_DUT	5	Connector, header, 50 pos, .100"	hdr_1x02_100	-	-	Various	TSW-150-14-G-5	Yes	Yes
U3	0	DNP	DNP	-	-	-	DNP	-	Yes
U4	0	DNP	DNP	-	-	-	DNP	-	Yes
J4J5,J20,J21,J22,J23	6	TEST POINT, PC, MULTI PURPOSE, RED	TP RED	-	-	Various	5010K-ND	Yes	Yes
EXT_OSC_VDD	1	TEST POINT, PC, MULTI PURPOSE, BLK	TP BLK	-	-	Various	5011K-ND	Yes	Yes
TP1	1	TEST POINT, PC, MULTI PURPOSE, BLK	TP BLK	-	-	Various	5011K-ND	Yes	Yes
TP2	1	TEST POINT, PC, MULTI PURPOSE, BLK	TP BLK	-	-	Various	5011K-ND	Yes	Yes
Y1	1	Crystal, CTS, 25Mhz, TH	25Mhz	-	-	Various	ABL-25.000MHZ-82F	Yes	Yes
U401	1	IC REG LDO 1.3V 0.15A SOT23-5	3.3V	-	-	ON Semiconductor	NCP4586DSN31TG-ND	No	Yes
U402	1	IC REG LDO 2.5V 0.15A SOT23-5	2.5V	-	-	ON Semiconductor	NCP4688DSN2511G5CT-ND	No	Yes
U403	1	IC REG LDO 1.8V 0.15A SOT23-5	1.8V	-	-	Various	MICS247-1.8VMS1R	Yes	Yes
U1	1	ONSEMI_NB3H5150_SKT_MM_50-000-0	QFM	-	-	ON Semiconductor	NB3H5150	No	Yes
	28	Conn Jumper	Jumper	-	-	Various	59341-ND	Yes	Yes
	1	USB Cable - USB A Mini-B 1.8M frost white		-	-	Various	88732-8800	Yes	Yes
	1	IDT tools USB Hi-Speed FT232RL Evaluation Module		-	-	Various	FT232RH Mini Module	Yes	Yes