



Bill of Materials for the NCN51206GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CON1	1	-	-	-	NA	Wago	243-211	Yes	Yes
C1,C2	2	Ceramic Multilayer	10pF, 6.3V	+/-5%	0402	TDK	C1005COG1H100D	Yes	Yes
C3,C4,C7	3	Ceramic Multilayer	100nF, 6.3V	+/-20%	0402	TDK	C1005X5R0J104M	Yes	Yes
C5	1	Ceramic Multilayer	47nF, 50V	+/-20%	0603	TDK	C1608X7R1H473M	Yes	Yes
C6	1	Ceramic Multilayer	4.7nF, 50V	+/-10%	0402	TDK	C1005X5R1H472K	Yes	Yes
C8	1	Aluminium Electrolytic	100uF, 35V	+/-20%	8 x 10	Epcos	B41145A7107M000	Yes	Yes
C10	0	Ceramic Multilayer, DNP	10pF, 6.3V	+/-5%	0402	TDK	C1005COG1H100D	Yes	Yes
C11	1	Ceramic Multilayer	10uF, 25V	+/-20%	0805	TDK	C2012X5R1E106M	Yes	Yes
C12	1	Ceramic Multilayer	10uF, 6.3V	+/-20%	0603	TDK	C1608X5R0J106M	Yes	Yes
C13	1	Ceramic Multilayer	1uF, 50V	+/-20%	0603	TDK	C1608X5R1H105M	Yes	Yes
C15,C16	2	Ceramic Multilayer	1uF, 6.3V	+/-20%	0402	TDK	C1005X5R0J105M	Yes	Yes
C17	1	Ceramic Multilayer	12pF, 6.3V	+/-5%	0402	TDK	C1005C0G1H120J	Yes	Yes
D1	1	-	-	-	SMA	ON Semiconductor	SS16T3G	No	Yes
D2	1	-	-	-	SMA	ON Semiconductor	1SMA40AT3G	No	Yes
D3	0	DNP	-	-	SOD-523	ON Semiconductor	NSR0520V2T1G	No	Yes
D5,D6,D7,D8	4	-	-	-	SOD-523	ON Semiconductor	ESD5Z3.3T1G	No	Yes
D14, D15	2	-	-	-	SOT-363-6	ON Semiconductor	SMF05CT1G	No	Yes
J1, J2	2	2 pins needed per connector!	-	-	5.75mm pitch	JST	RT-01T-1.0B(LF)	Yes	Yes
J3	1	-	-	-	1.27mm pitch	Würth Elektronik	622 016 211 21	No	Yes
J4	1	-	-	-	2mm pitch	Würth Elektronik	620 008 211 21	No	Yes
L1,L2	2	-	220u	+/-10%	See datasheet	Coils Electronic	DA54NP-221K	Yes	Yes
LED1, LED2, LED3	3	-	-	-	1.6 x 0.8	Avago Technologies	HSMG-C190	Yes	Yes
Q1,Q2	2	-	-	-	SOT-363-6	ON Semiconductor	NTJD4001NT1G	No	Yes
R4	1	Thick Film	22R	+/-10%	1218	Yageo	RC1218JK-xx22RL	Yes	Yes
R5	1	Thick Film	0R	NA	0402	Yageo	RC0402JR-xx0RL	Yes	Yes
R6	1	Thick Film	33k	+/-5%	0402	Yageo	RC0402JR-xx33KL	Yes	Yes
R7,R8	2	Thick Film	1R	+/-5%	0402	Yageo	RC0402JR-xx1RL	Yes	Yes
R9	1	Thick Film	180k	+/-5%	0402	Yageo	RC0402JR-xx180KL	Yes	Yes
R10	0	Thick Film, DNP	0R	NA	0402	Yageo	RC0402JR-xx0RL	Yes	Yes
R15,R18,R23,R26	4	Thick Film	1k	+/-5%	0402	Yageo	RC0402JR-xx1KL	Yes	Yes
R16,R19,R24,R27	4	Thick Film	1MEG	+/-5%	0402	Yageo	RC0402JR-xx1ML	Yes	Yes
R20,R28,R29	3	Thick Film	1k	+/-5%	0402	Yageo	RC0402JR-xx1KL	Yes	Yes
R21	1	Thick Film	100k	+/-5%	0402	Yageo	RC0402JR-xx100KL	Yes	Yes
SW1	1	-	-	-	See datasheet	Würth Elektronik	434 123 025 816	No	Yes
U1	1	-	-	-	QFN-40	ON Semiconductor	NCN5120	No	Yes
U2	1	-	-	-	VQFN-40	Texas Instruments	MSP430F2370IRHAX	No	Yes
Y1	1	-	-	-	3.2 x 2.5	Epson Toyocom	FA-238, 16MHz, 50ppm, 10pF	No	Yes