



# Bill of Materials for the NCL30100ASLDGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	Capacitor	2.2 uF / 25 V	10%	0805	AVX	08053C225KAT2A	Yes	Yes
C2	1	Capacitor	33 pF	5%	0603	Kemet	C0603C330J5GACTU	Yes	Yes
C3	1	Capacitor	4.7 uF / 25 V	10%	0805	AVX	08053D475KAT2A	Yes	Yes
C5	1	Capacitor	1 nF	10%	0603	Kemet	C0603C104K5RACTU	Yes	Yes
D1	1	Surface Mount Schottky Power	MBR130T3G	-	SOD-123	ON Semiconductor	MBR130T3G	No	Yes
D2	1	Zener Diode	16V	5%	SOD-123	ON Semiconductor	MMSZ16VT1G	No	Yes
D3	1	Schottky Diode	NSR0520V2T1G	-	SOD-523	ON Semiconductor	NSR0520V2T1G	No	Yes
D4, D5, D6, D7	4	Schottky Diode	NSR0340HT1G	-	SOD-323	ON Semiconductor	NSR0340HT1G	No	Yes
IC1	1	LED Driver	NCL30100	-	TSOP-6	ON Semiconductor	NCL30100SNT1G	No	Yes
L3	1	Inductors	47 uH	10%	WE-PD2_M	Würth Elektronik	744774147	No	Yes
Q1	1	Power MOSFET	NTGS4141NT1G	-	TSOP-6	ON Semiconductor	NTGS4141NT1G	No	Yes
Q2	1	Power MOSFET (optional)	NU	-	SOT-223	ON Semiconductor	NTF3055-100T1G	No	Yes
	1	Power MOSFET (optional)	NU	-	DPAK	ON Semiconductor	NTD23N03RT4G	No	Yes
	1	Power MOSFET (optional)	NU	-	SOT-363	ON Semiconductor	NTJS4160NT1G	No	Yes
	1	Power MOSFET (optional)	NU	-	SOT-23	ON Semiconductor	NTR4170NT1G	No	Yes
Q3	1	General Purpose Transistor NPN	BC817-16	-	SOT-23	ON Semiconductor	BC817-16LT1G	No	Yes
	1	Power MOSFET (optional)	NU	-	SOT-23	ON Semiconductor	NTS4001NT1G	No	Yes
R1	1	Resistor	1.5 M	1%	0603	Rohm	MCR03EZPFX1504	Yes	Yes
R2	1	Resistor	300 R	1%	0603	Rohm Semiconductor	MCR03EZPFX3000	Yes	Yes
R3	1	Resistor	30 k	1%	0603	Rohm	MCR03EZPFX3002	Yes	Yes
R4	1	Resistor	0.1 R	1%	0805	Welwyn	LRCS0805-0R1FT5	Yes	Yes
R5	1	Resistor	2.7 k	1%	0603	Rohm	MCR03EZPFX2701	Yes	Yes
R8	1	Resistor	10 k	1%	0603	Rohm Semiconductor	MCR03EZPFX1002	Yes	Yes
R9	1	Resistor	5.6 k	1%	0603	Rohm	MCR03EZPFX5601	Yes	Yes