



Bill of Materials for the NCL30100ADLMGEVB 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
C4	1	Capacitor	1 nF	10%	0603	Kemet	C0603C104K5RACTU	Yes	Yes
D1	1	Surface Mount Schottky Power	MBR130T3G	-	SOD-123	ON semiconductors	MBR130T3G	No	Yes
D2	1	Zener Diode	16V	5%	SOD-523	ON semiconductors	MM5Z16VT1G	No	Yes
D3, D4, D5, D6	4	Schottky Diode	NSR0340HT1G	-	SOD-323	ON semiconductors	NSR0340HT1G	No	Yes
D7	1	Schottky Diode	NSR0520V2T1G	-	SOD-523	ON semiconductors	NSR0520V2T1G	No	Yes
IC1	1	LED Driver	NCL30100	-	TSOP-6	ON semiconductors	NCL30100SNT1G	No	Yes
L1	1	Inductors	47 uH	10%	WE-PD2_M	Würth Elektronik	744774147	No	Yes
Q1	1	Power MOSFET	NTGS4141NT1G	-	TSOP-6	ON semiconductors	NTGS4141NT1G	No	Yes
	1	Power MOSFET (optional)	NU	-	SOT-223	ON semiconductors	NTF3055-100T1G	No	Yes
	1	Power MOSFET (optional)	NU	-	SOT-363	ON semiconductors	NTJS4160NT1G	No	Yes
	1	Power MOSFET (optional)	NU	-	SOT-23	ON semiconductors	NTR4170NT1G	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 Semiconductor	MCR03EZPFX2701	Yes	Yes
See picture	4	26 AWG cable 6 inches in length	-	-	-	Various	Various	Yes	Yes

