



## Bill of Materials for the NCL30081LEDGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVcc	1	Capacitor	4.7uF	10%	0603	Taiyo Yuden	EMK107ABJ475KA-T	Yes	Yes
CVccbulk	1	Capacitor	27uF	20%	CAP-ALEL-4X11-HOR	Panasonic	EEU-FC1E270	Yes	Yes
Cout	1	Capacitor	22uF 16V	20%	1206	Taiyo Yuden	EMK316BJ226ML-T	Yes	Yes
C2	1	Capacitor	4.7uF 400V	20%	CAP_ALEL_D10XL13	Rubycon	400LLE4R7MEFC10X12.5	Yes	Yes
C3	1	Capacitor	100nF 400V	-	CAP-BOX-LS5-5M0X7M2	Epcos	B32559C6104+***	Yes	Yes
C14,C15	2	Capacitor	470p 250VAC Y2	10%	1808	Murata	GA342QR7GF471KW01L	Yes	Yes
Dclamp	1	Zener Diode	BZX100A	5%	SOD323F	NXP	BZX100A,115	Yes	Yes
Dleak	1	Diode	UFM15PL	-	SOD123FL	MCC	UFM15PL	Yes	Yes
Dout	1	Diode	UFM12PL	-	SOD123FL	MCC	UFM12PL	Yes	Yes
D4	1	Diode	MB6S	-	MB6S	MCC	MB6S	Yes	Yes
D9	1	Diode	BAS21DW5T1G	-	SC-88A	ON Semiconductor	BAS21DW5T1G	No	Yes
L1	1	Inductor	1.5mH	5%	IND-UPRIGHT-LS25	Würth	7447462152	Yes	Yes
Qfet	1	QFET	NDD02N60Z	-	IPAK	ON Semiconductor	NDD02N60Z	No	Yes
Rbo	1	Resistor	3.01 Meg	1%	0805	Yageo	RC0805FR-073M01L	Yes	Yes
Rfuse	1	Resistor	FUSE	-	FUSE-HAIRPIN-LS250	Littelfuse	0263.500WRT1L	Yes	Yes
Rsens,Rgd	2	Resistor	1.8	1%	0603	Vishay	CRCW06031R80FKEA	Yes	Yes
Rstart1,Rstart	2	Resistor	1.0 Meg	1%	0805	Yageo	RC0805FR-071ML	Yes	Yes
Rtrim	1	Resistor	11	1%	0402	Yageo	RT0402FRE0711RL	Yes	Yes
Rzcd	1	Resistor	56k	1%	0805	Yageo	RC0805FR-0756KL	Yes	Yes
R2	1	Resistor	51.1k	1%	0402	Yageo	RC0402FR-0751K1L	Yes	Yes
R4	1	Resistor	1.10k	1%	0402	Stackpole	RMCF0402FT1K10	Yes	Yes
R5	1	Resistor	20	1%	0402	Yageo	RC0402FR-0720RL	Yes	Yes
R8	1	Resistor	10k	1%	0402	Yageo	RC0402FR-0710KL	Yes	Yes
R11	1	Resistor	1k	5%	0805	Yageo	RC0805JR-071KL	Yes	Yes
T1	1	Transformer	XFRM_LINEAR	-	EP13-SMD-16PIN-MOD1	Würth	750313306 Rev2	Yes	Yes
U1	1	IC	NCL30080/1	-	TSOP6	ON Semiconductor	NCL30080/NCL30081	No	Yes
Input Wire	2	Wire 6", Input, White	UL1430	-	UL1430	Alpha Wire	#24 AWG, Stranded	Yes	Yes
Output Wire	1	Wire 6", Output, Red	UL1430	-	UL1430	Alpha Wire	#24 AWG, Stranded	Yes	Yes
Output Wire	1	Wire 6", Output, Black	UL1430	-	UL1430	Alpha Wire	#24 AWG, Stranded	Yes	Yes