



## Bill of Materials for the NCL30088LED1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVcc1	1	Capacitor	6.8uF	10%	1206	TDK	C3216X7R1V685K160AC	Yes	Yes
Cout	1	Capacitor	18uF 200V	20%	ALEL_10X12M5_VERT	Rubycon	200LLE18MEFC10X12.5	Yes	Yes
C4,C5	2	Capacitor	120nF 450V	10%	CAP_BOX_12M6X4M6_LS10	Panasonic	ECW-FD2W124KQ	Yes	Yes
C10	1	Capacitor	1uF	20%	402	Taiyo Yuden	TMK105BJ105MV-F	Yes	Yes
C11,C12	2	Capacitor	1n	10%	402	Kemet	C0402C102K3GACTU	Yes	Yes
Dout	1	Diode	US1K-TP	-	SMA	MCC	US1K-TP	Yes	Yes
D4	1	Rectifier	MB6S	-	MB6S	MCC	MB6S	Yes	Yes
D9	1	Diode	BAS21DW5T1G	-	SC-88A	ON Semiconductor	BAS21DW5T1G	No	Yes
F1	1	Fuse	FUSE	-	FUSE-HAIRPIN-LS250	Littelfuse	0263.500WRT1L	Yes	Yes
L1,L2	2	Inductor	3.3mH	-	RAD_IND_LS5	Würth	744772332	Yes	Yes
L3	1	Inductor	1.5mH	-	RAD_IND_LS5	Würth	744772152	Yes	Yes
Q1	1	STU8N80K5	STU8N80K5	-	IPAK	ST	STU8N80K5	Yes	Yes
Rtco	1	Thermistor	100k Ohm NTC	5%	603	Epcos	B57331V2104J60	Yes	Yes
Rzcd	1	Resistor	56k	1%	1206	Yageo	RC1206FR-0756KL	Yes	Yes
R1	1	Resistor	620k	1%	1206	Yageo	RC1206FR-07620KL	Yes	Yes
R2	1	Resistor	10k	1%	402	Yageo	RC0402FR-0710KL	Yes	Yes
R3	1	Resistor	620	1%	402	Yageo	RC0402FR-07620RL	Yes	Yes
R5	1	Resistor	4.7	1%	1206	Yageo	RC1206FR-074R7L	Yes	Yes
R10,R11	2	Resistor	5.1k	1%	1206	Yageo	RC1206FR-075K1L	Yes	Yes
R14,R15	2	Resistor	75k 1/2W	1%	1206	Stackpole	RNCP1206FTD75K0	Yes	Yes
R16	1	Resistor	1 Meg	5%	1206	Yageo	RC1206JR-071ML	Yes	Yes
T1	1	Transformer	XFRM LINEAR	-	RM6_4P	Würth	750314731	Yes	Yes
W1	6"	Wire	Wire, Red, 24AWG	-	UL1569	McMaster Carr	7587K922	Yes	Yes
W2	6"	Wire	Wire, Blk, 24AWG	-	UL1569	McMaster Carr	7587K921	Yes	Yes
W3, W4	12"	Wire	Wire, Wht, 24AWG	-	UL1569	McMaster Carr	7587K924	Yes	Yes
<b>Note: All Components to comply with RoHS 2002/95/EC</b>									
<b>Construction Options</b>									
<b>NCL30088B Revision 00</b>									
U2	1	NCL30088B	NCL30088B	-	SO8	On Semiconductor	NCL30088B	No	Yes
Rsens	1	Resistor	1.13	1%	1206	Yageo	RC1206FR-071R13L	Yes	Yes
R4	1	Resistor	No Stuff	-	805	Yageo	RC0805JR-0710RL	Yes	Yes
<b>NCL30088D Revision 01</b>									
U2	1	NCL30088D	NCL30088D	-	SO8	On Semiconductor	NCL30088D	No	Yes
Rsens	1	Resistor	1	1%	1206	Yageo	RC1206FR-071RL	Yes	Yes
R4	1	Resistor	10	1%	805	Yageo	RC0805JR-0710RL	Yes	Yes