



Bill of Materials for the NCL30082SMRTGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C13, C15, Czig, CVcc	4	Ceramic Capacitor	4.7uF	10%	603	Taiyo Yuden	EMK107ABJ475KA-T	Yes	Yes
Cout	1	Ceramic Capacitor	4.7uF 100V	10%	1206	AVX	12061Z475KAT2A	Yes	Yes
C3,C5	2	Film Capacitor	100nF 250V	10%	CAP-BOX-LS5-3M5X7M2	Epcos	B32559-C3104-+***	Yes	Yes
C4	1	Aluminum Capacitor	10uf 200V	20%	CAP-ALEL-8X12-HOR	Rubycon	200LLE10MEFC8X11.5	Yes	Yes
C10,C11	2	Ceramic Capacitor	1n	10%	402	Kemet	C0402C102K3GACTU	Yes	Yes
Dout	1	Diode 600V, 1A	UFM15PL	-	SOD123FL	MCC	UFM15PL	Yes	Yes
D4	1	RECTIFIER BRIDGE 1000V 1A ABS	ABS10	-	ABS10	Comchip	ABS10	Yes	Yes
D9,D13	2	DIODE ARRAY GP 250V 200MA	BAS21DW5T1G	-	SC-88A	ON Semiconductor	BAS21DW5T1G	No	Yes
D10,D12,D15	3	DIODE ZENER 15V 200MW	MM5Z15VT1G	5%	SOD523	On Semiconductor	MM5Z15VT1G	No	Yes
D11	1	DIODE GEN PURP 75V 200MA	BAS116LT1G	-	SOT23	On Semiconductor	BAS116LT1G	No	Yes
D14	1	DIODE GEN PURP 75V 200MA	BAS16XV2T1G	-	SOD523	On Semiconductor	BAS16XV2T1G	No	Yes
F1	1	FUSE BRD MNT 500MA 250VAC AXIAL	FUSE	-	FUSE-AXIAL-LS450	Littelfuse	0263.500WRT1L	Yes	Yes
J7	1	HEADER, 1.27MM, THROUGH HOLE VERTICAL	TMS-103-02-G-D	-	Conn_Samtec_2X3	Samtec	TMS-103-02-G-D	Yes	Yes
L1	1	FIXED IND 1.5MH 190MA 8 OHM TH	1.5mH	5%	IND-UPRIGHT-LS25	Wurth	7447462152	Yes	Yes
L2	1	FIXED IND 1.5MH 190MA 8 OHM TH	1.5mH	5%	IND-HOR-LS25	Wurth	7447462152	Yes	Yes
Qfet	1	MOSFET N-CH 600V IPAK	NDD02N60Z	-	IPAK	ON Semiconductor	NDD02N60Z	No	Yes
Q1,Q2	2	TRANS NPN 40V 0.2A	MMBT3904WT1G	-	SOT323	On Semiconductor	MMBT3904WT1G	No	Yes
Q3	1	TRANS NPN 80V 0.5A	MMBTA06LT1G	-	SOT23	On Semiconductor	MMBTA06LT1G	No	Yes
Q4	1	MOSFET N-CH 50V 200MA	BSS138	-	SOT23	ON Semiconductor	BSS138	No	Yes
Rbo	1	RES SMD 3.01M OHM 1% 1/8W	3.01 Meg	1%	805	Yageo	RC0805FR-073M01L	Yes	Yes
Rdamp	1	RES SMD 180 OHM 5% 1/8W	180	5%	805	Yageo	RC0805JR-07180RL	Yes	Yes
Rlff	1	RES SMD 620 OHM 1% 1/16W	620	1%	402	Yageo	RC0402FR-07620RL	Yes	Yes
Rsens	1	RES SMD 1 OHM 1% 1/4W	1	1%	1206	Yageo	RC1206FR-071RL	Yes	Yes
Rstart1,Rstart	2	RES SMD 1M OHM 1% 1/8W	1.0 Meg	1%	805	Yageo	RC0805FR-071ML	Yes	Yes
Rtco	1	THERMISTOR NTC 100K OHM 5%	100k Ohm NTC	5%	603	Epcos	B57331V2104J60	Yes	Yes
R20,Rzcd	2	RES SMD 56K OHM 1% 1/8W	56k	1%	805	Yageo	RC0805FR-0756KL	Yes	Yes
R2	1	RES SMD 51.1K OHM 1% 1/16W	51.1k	1%	402	Yageo	RC0402FR-0751K1L	Yes	Yes
R6,R10	2	RES SMD 10K OHM 1% 1/16W	10k	1%	402	Yageo	RC0402FR-0710KL	Yes	Yes
R7	1	RES SMD 470 OHM 1% 1/16W	470	1%	402	Yageo	RC0402FR-07470RL	Yes	Yes
R8,R9,R15,R19	4	RES SMD 100K OHM 1% 1/16W	100k	1%	402	Yageo	RC0402FR-07100KL	Yes	Yes
R11	1	RES SMD 12K OHM 1% 1/16W	12k	1%	402	Yageo	RC0402FR-0712KL	Yes	Yes
R16	1	RES SMD 40.2K OHM 1% 1/16W	40.2k	1%	402	Yageo	RC0402FR-0740k2L	Yes	Yes
R18	1	RES SMD 62 OHM 1% 1/16W	62	1%	402	Yageo	RC0402FR-0762RL	Yes	Yes
R21	1	RES SMD 3.32K OHM 1% 1/16W	3.32k	1%	402	Yageo	RC0402FR-073K32L	Yes	Yes
T1	1	Transformer	XFRM_LINEAR	-	RM5_8P_TH	Wurth	750315096	Yes	Yes
U1	1	Power Factor Corrected Dimmable LED Driver	NCL30082B	-	MICRO8	On Semiconductor	NCL30082B	No	Yes
U2	1	IC REG LDO 3.3V 0.1A	LP2951ACDM-3.3	-	MICRO8	On Semiconductor	LP2951ACDM-3.3	No	Yes
U4	1	IC VREF SHUNT ADJ	NCP431A	-	SOT23	On Semiconductor	NCP431A	No	Yes
U5	1	IC REG LDO ADJ 0.1A	LM317	-	TO92	On Semiconductor	LM317LBDR2G	No	Yes
W1	6"	-	Wire, Red, 24AWG	-	UL1569	McMaster Carr	7587K922	Yes	Yes
W2	6"	-	Wire, Blk, 24AWG	-	UL1569	McMaster Carr	7587K921	Yes	Yes
W3, W4	12"	-	Wire,Wht, 24AWG	-	UL1569	McMaster Carr	7587K924	Yes	Yes