



Bill of Materials for the NCL30082FLYGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVccbulk	1*	Connector	-	-	-	Molex	22035025	Yes	Yes
CVcc	1	Capacitor	4.7 uF	10%	-	Taiyo Yuden	EMK107ABJ475KA-T	Yes	Yes
Cleak	0	DNP	DNP	-	-	DNP	DNP	Yes	Yes
Cout	1	Capacitor	22 uF 16 V	20%	-	Taiyo Yuden	EMK316BJ226ML-T	Yes	Yes
C2, C4	2	Capacitor	18 uf 200 V	20%	-	Rubycon	200LLE18MEFC10X12.5	Yes	Yes
C3, C5	2	Capacitor	120 nF 400 V	10%	-	Epcos	B32559C6124+***	Yes	Yes
C10, C11	2	Capacitor	1nF	10%	-	Kemet	C0402C102K3GACTU	Yes	Yes
C13	1	Capacitor	1000 pF, 630 V	10%	-	Kemet	C0805C102KBRCTU	Yes	Yes
C14, C15	2	Capacitor	470 pF, 250 VAC, Y2	10%	-	Johanson Dielectric	502R29W471KV3E-****-SC	Yes	Yes
D1, D2, D3, Dleak	4	Diode	UFM15PL	-	-	MCC	UFM15PL	Yes	Yes
Dout	1	Diode	MURA220T3	-	-	On Semiconductor	MURA220T3	No	Yes
D4	1	Diode	MB6S	-	-	MCC	MB6S	Yes	Yes
D9	1	Diode	BAS21DW5T1G	-	-	ON Semiconductor	BAS21DW5T1G	No	Yes
F1	1	Fuse	FUSE	-	-	Littelfuse	0263.500WRT1L	Yes	Yes
L1	1	Inductor	220 uH	10%	-	Würth	7447462221	Yes	Yes
L2	1	Inductor	1.5 mH	5%	-	Würth	7447462152	Yes	Yes
Qfet	1	QFET	NDD02N60Z	-	-	ON Semiconductor	NDD02N60Z	No	Yes
Rbo	1	Resistor	3.01 MΩ	1%	-	Yageo	RC0805FR-073M01L	Yes	Yes
Rclamp	1	Resistor	47 kΩ	1%	-	Yageo	RC0805FR-0747K0L	Yes	Yes
Rdamp	1	Resistor	180 Ω	5%	-	Yageo	RC0805JR-07180RL	Yes	Yes
Rgd	1	Resistor	10 Ω	1%	-	Yageo	RC0603FR-0710RL	Yes	Yes
Rjump1	0	DNP	DNP	-	-	DNP	DNP	Yes	Yes
Rtco_TRIM	1	Resistor	10 kΩ	1%	-	Yageo	RC0402FR-0710KL	Yes	Yes
R8	1	Resistor	10 kΩ	1%	-	Yageo	RC0402FR-0710KL	Yes	Yes
Rjump2	1	Resistor	10 kΩ	1%	-	Yageo	RC0402FR-0710KL	Yes	Yes
Rlff	1	Resistor	620 Ω	1%	-	Yageo	RC0402FR-07620RL	Yes	Yes
Rsens	1	Resistor	0.82 Ω	1%	-	Yageo	RL0603FR-070R82L	Yes	Yes
Rstart1, Rstart	2	Resistor	1.0 MΩ	1%	-	Yageo	RC0805FR-071ML	Yes	Yes
Rtco	1	Resistor	100 kΩ, NTC	5%	-	Epcos	B57331V2104J60	Yes	Yes
Rtrim	1	Resistor	7.15 Ω	1%	-	Vishay/Dale	CRCW06037R15FKEA	Yes	Yes
Rzcd	1	Resistor	56 kΩ	1%	-	Yageo	RC0805FR-0756KL	Yes	Yes
R2	1	Resistor	51.1 kΩ	1%	-	Yageo	RC0402FR-0751K1L	Yes	Yes
R5	1	Resistor	4.7 Ω	5%	-	Yageo	RC0805JR-074R7L	Yes	Yes
R9	1	Resistor	100 Ω	5%	-	Yageo	RC0805JR-07100RL	Yes	Yes
T1	1	Transformer	XFRM_LINEAR	-	-	Würth	750313435	No	Yes
U1	1	IC	NCL30082	-	-	ON Semiconductor	NCL30082BDMR2G	No	Yes

Wire , Input, White	2	Wire, 6", White	UL1430	-	-	Alpha Wire	#24 AWG, Stranded, 6"	Yes	Yes
Wire, Output, Red	1	Wire, 6", Red	UL1430	-	-	Alpha Wire	#24 AWG, Stranded, 6"	Yes	Yes
Wire, Output, Black	1	Wire, 6", Black	UL1430	-	-	Alpha Wire	#24 AWG, Stranded, 6"	Yes	Yes

*Notes:	Connector Assembly	Supplier	Part Number
	* Board Connector	Molex	22035025
	Mating Connector	Molex	50375023
	Connector Terminal	Molex	8701039

