



Bill of Materials for the NCL30188FLYGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVcc	1	Tantalum Capacitor	4.7uF	0.2	1210	AVX	TAJB475M035RNJ	Yes	Yes
Cout	1	Aluminum Capacitor	330uF 35V	0.2	CAP-ALEL-10X16-HOR	Nichicon	UHE1V331MPD	Yes	Yes
C4,C5	2	Film Capacitor	120nF 400V	0.1	CAP-BOX-LS5-5M0X7M2	Epcos	B32559C6124+***	Yes	Yes
C10	1	Ceramic Capacitor	1uF	0.1	603	Taiyo Yuden	GMK107AB7105KAHT	Yes	Yes
C12	1	Ceramic Capacitor	1n	0.1	402	Kemet	C0402C102K3GACTU	Yes	Yes
C13	1	Ceramic Capacitor	1000p 630V	0.1	805	Kemet	C0805C102KBRCTU	Yes	Yes
C14,C15	2	Ceramic Capacitor	470p 250VAC Y2	0.1	1808	Murata	GA342QR7GF471KW01L	Yes	Yes
Dclmp	1	Diode	UFM15PL	-	SOD123FL	MCC	UFM15PL	Yes	Yes
Dout	1	Diode	MURA220T3	-	SMA	On Semiconductor	MURA220T3	No	Yes
D4	1	Bridge 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	Fixed Inductor	2.7mH	0.1	Drum_Core_Hor_LS5_875S	Bourns	RL875S-272K	Yes	Yes
L3	1	Fixed Inductor	1.5mH	0.05	IND-UPRIGHT-LS25	Würth	7447462152	Yes	Yes
Q1	1	FET	NDD02N60Z	-	IPAK	ON Semiconductor	NDD02N60Z	No	Yes
Rclmp	1	Chip Resistor	100k	0.01	1206	Yageo	RC1206FR-07100KL	Yes	Yes
Rpre	1	Chip Resistor	20k	0.2	603	Yageo	RC0603FR-0720KL	Yes	Yes
Rsens	1	Chip Resistor	1.43	0.01	1206	Yageo	RC1206FR-071R43L	Yes	Yes
Rtco	1	Thermistor	100k Ohm NTC	0.05	603	Epcos	B57331V2104J60	Yes	Yes
Rzcd	1	Chip Resistor	56k	0.01	805	Yageo	RC0805FR-0756KL	Yes	Yes
R2	1	Chip Resistor	10k	0.01	402	Yageo	RC0402FR-0710KL	Yes	Yes
R3	1	Chip Resistor	820	0.01	402	Yageo	RC0402FR-07820RL	Yes	Yes
R4,R5	2	Chip Resistor	75k	0.01	1206	Yageo	RC1206FR-0775KL	Yes	Yes
R6	1	Chip Resistor	620k	0.01	1206	Yageo	RC1206FR-07620KL	Yes	Yes
R7	1	Chip Resistor	16	0.01	603	Yageo	RT0402FRE0716RL	Yes	Yes
R10,R11	2	Chip Resistor	10k	0.05	805	Yageo	RC0805JR-0710KL	Yes	Yes
T1	1	Transformer	XFRM_LINEAR	-	RM6-4P-TH-FLYLEADS	Würth	7508112342	Yes	Yes
U1	1	3 step Dimmable, Isolated Flyback	NCL30088	-	SO8M1	On Semiconductor	NCL30188	No	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