



Bill of Materials for the NCL30073LED3GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CVcc	1	Aluminum Electrolytic Capacitors	10uF 100V	20%	-	Digikey	1189-2150-ND	Yes	Yes
Cout	1	Aluminum Electrolytic Capacitors	100uF100V	20%	-	Digikey	UVK2A101MPD-ND	Yes	Yes
C4	1	-	390nF 250V	-	-	Faratronic	C212E394-6B****+	Yes	Yes
C6	1	-	150nF 250V	-	-	Faratronic	C212E154-3B****+	Yes	Yes
C7	1	Capacitor	1uF 50V	10%	-	Digikey	311-1886-1-ND	Yes	Yes
C8	1	Capacitor	10nF	10%	-	Digikey	311-1085-1-ND	Yes	Yes
Dout1_Dout	2	Diode	MURA160T3G	-	-	On Semiconductor	MURA160T3G	No	Yes
D4	1	Bridge Rectifier	MB6S	-	-	Digikey	MB4S-TPMSCT-ND	Yes	Yes
F2	1	Fuse	0A5	-	-	Digikey	F1999CT-ND	Yes	Yes
L1	1	Fixed Inductor	4.7mH	5%	-	Digikey	732-3790-ND	Yes	Yes
L5	1	Inductor	820uH	-	-	Würth	750316244	Yes	Yes
Q1	1	MOSFET N-CH	NDD05N50ZT4G	-	-	On Semiconductor	NDD05N50ZT4G	No	Yes
Q2	1	TRANS NPN 160V 0.6A SOT23	MMBT5551LT1G	-	-	On Semiconductor	MMBT5551LT1G	No	Yes
RV1	1	VARISTOR	MOV 130V	-	-	Digikey	F3049-ND	Yes	Yes
Rdamp	1	Through Hole Resistor	220	5%	-	Digikey	220W-2-ND	Yes	Yes
Rsens	1	Resistor	0.91	1%	-	Digikey	311-0.91APCT-ND	Yes	Yes
Rtco	1	THERMISTOR	680 PTC	50%	-	Digikey	495-4312-1-ND	Yes	Yes
R15	1	Resistor	10	1%	-	Digikey	311-10.0FRCT-ND	Yes	Yes
R27	1	Resistor	10k	1%	-	Digikey	311-10.0KHRCT-ND	Yes	Yes
R29	1	Resistor	412k	1%	-	Digikey	311-412KFRCT-ND	Yes	Yes
R36	1	Resistor	301k	1%	-	Digikey	311-301KHRCT-ND	Yes	Yes
R37	1	Resistor	100k	1%	-	Digikey	311-100KHRCT-ND	Yes	Yes
R38	1	Transformer	220k	1%	-	Digikey	311-220KFRCT-ND	Yes	Yes
U2	1	IC	NCL30073	-	-	On Semiconductor	NCL30073	No	Yes