



Bill of Materials for the NCL30073LED2GEVB 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	1000uF 50V	20%	-	Digikey	4603PHBK-ND	Yes	Yes
C4	1	-	100nF 400V	-	-	Faratronic	C252G104-40****+	Yes	Yes
C6	1	-	33nF 400V	-	-	Faratronic	C252G333-20****+	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
C9	1	Capacitor	2.2nF	20%	-	Digikey	490-7889-1-ND	Yes	Yes
Dout	1	Diode	MURS240T3G	-	-	On Semiconductor	MURS240T3G	No	Yes
D4	1	Bridge Rectifier	MB6S	-	-	Digikey	MB4S-TPMST-ND	Yes	Yes
D9	1	DIODE ARRAY GP 250V 200MA	BAS21DW5T1G	-	-	On Semiconductor	BAS21DW5T1G	No	Yes
D10	1	Surface Mount Ultrafast Power Rectifier	MURA160T3G	-	-	On Semiconductor	MURA160T3G	No	Yes
D11	1	DIODE ZENER	1SMB5956B	5%	-	On Semiconductor	1SMB5956B	No	Yes
F2	1	Fuse	0A5	-	-	Digikey	F1999CT-ND	Yes	Yes
L1	1	Fixed Inductor	10mH	5%	-	Digikey	732-3791-ND	Yes	Yes
Q1	1	MOSFET N-CH	NDD03N80ZT4G	-	-	On Semiconductor	NDD03N80ZT4G	No	Yes
RV1	1	VARISTOR 220V 400A DISC 5MM	MOV 250V	-	-	Digikey	F3361-ND	Yes	Yes
Rdamp	1	Through Hole Resistor	680	5%	-	Digikey	680W-2-ND	Yes	Yes
Rsens	1	Resistor	1.6	1%	-	Digikey	311-1.60FRCT-ND	Yes	Yes
Rtco	1	THERMISTOR	680 PTC	50%	-	Digikey	495-4312-1-ND	Yes	Yes
R24	1	Resistor	220k	1%	-	Digikey	311-220KFRCT-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
R30	1	Resistor	143k	1%	-	Digikey	311-143KFRCT-ND	Yes	Yes
R31	1	Chip Resistor - Surface Mount	10k	1%	-	Digikey	311-10.0KFRTR-ND	Yes	Yes
R32	1	Resistor	220	1%	-	Digikey	311-220CRCT-ND	Yes	Yes
T1	1	Transformer	XFRM_LINEAR	-	-	Würth	750316147	Yes	Yes
U2	1	IC	NCL30073	-	-	On Semiconductor	NCL30073	No	Yes